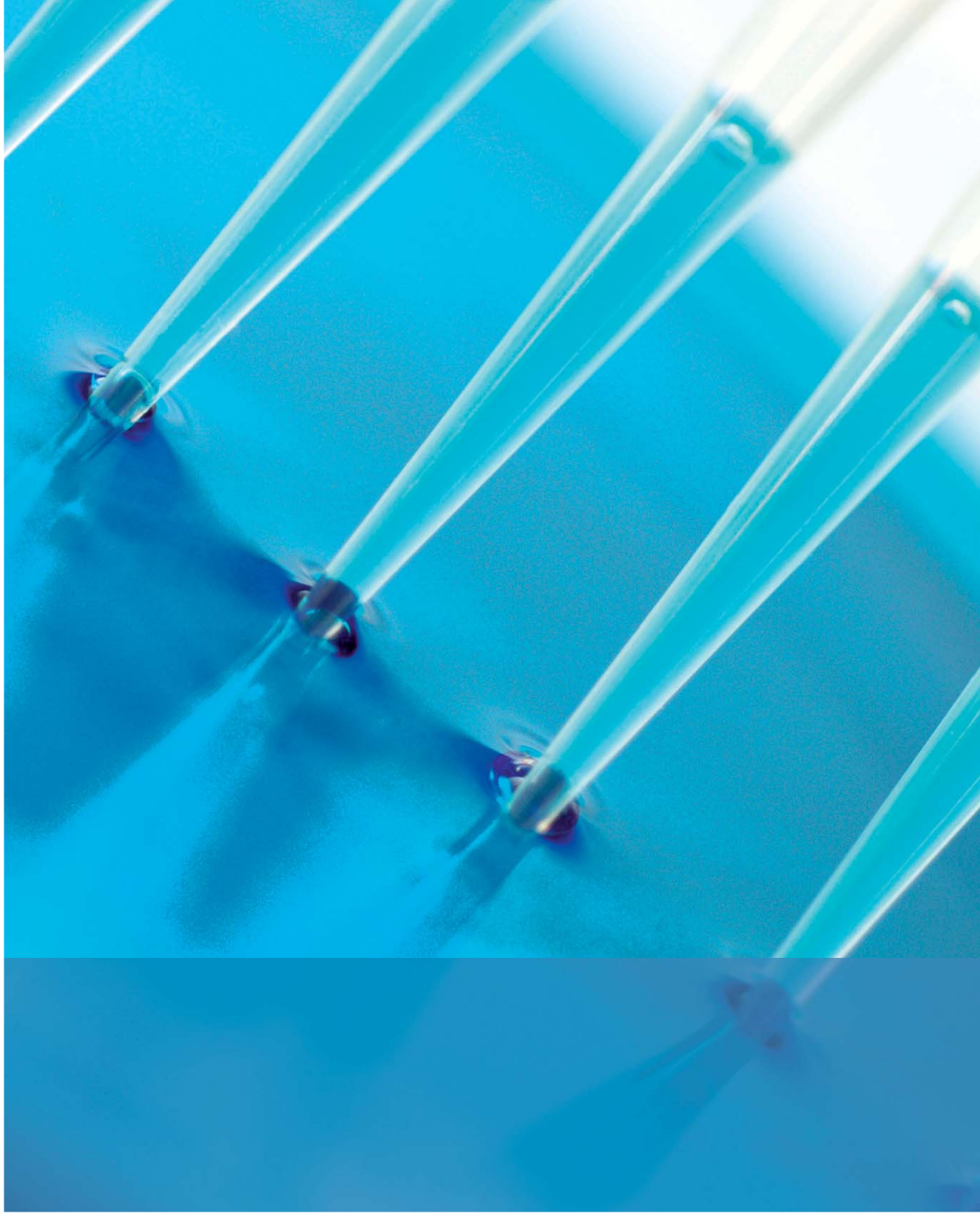
Thermo Scientific Laboratory Products Catalog

- Handheld Pipetting
- Automated Liquid Handling
- Microplate Instrumentation
- Nucleic Acid Purification and Electroporation
- PCR Instruments and Consumables
- Microcentrifuge Tubes and Racks
- Compliance & Calibration Services
- Leasing

The best products and services

for demanding lab applications

Thermo SCIENTIFIC

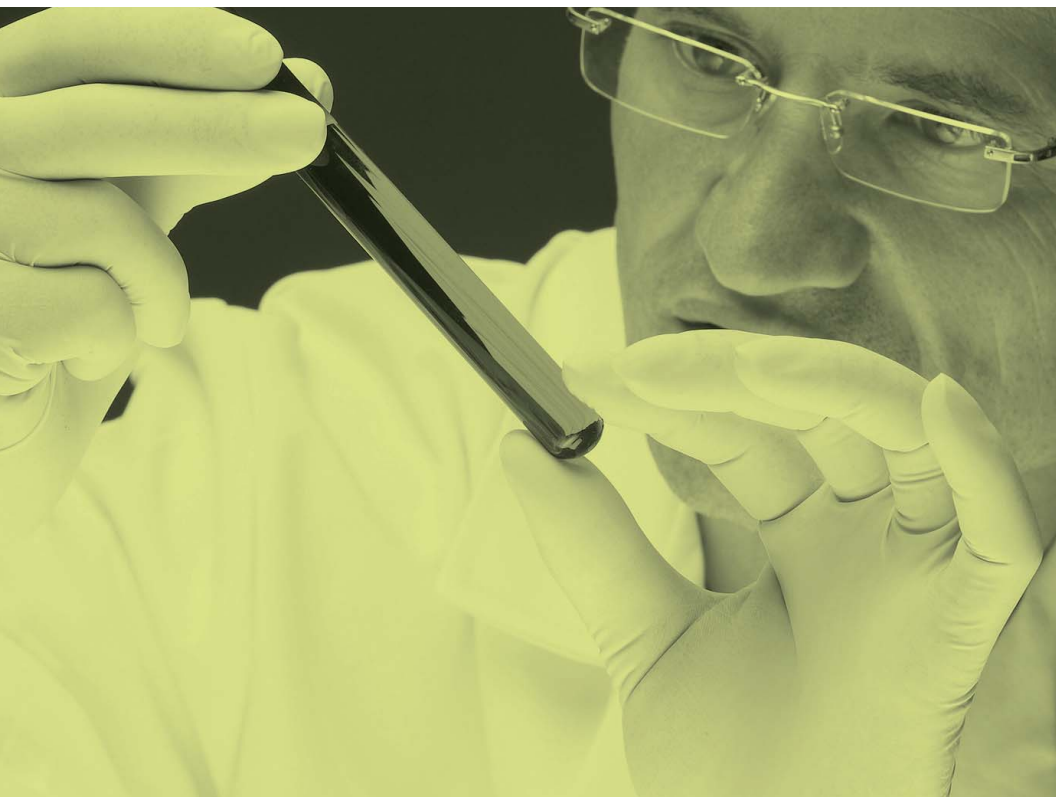


Thermo Scientific Laboratory Products Catalog

Discover why more laboratories rely on Thermo Scientific liquid handling solutions...

This catalog is designed to help you select the best products to meet virtually any laboratory requirement. From handheld pipetting and automated liquid handling to microplate instrumentation, nucleic acid purification, PCR amplification and more – this resource makes it easy to meet your application challenges with a complete portfolio of industry-leading Thermo Scientific and Molecular BioProducts offerings.

For additional information, contact your sales representative or **visit www.thermoscientific.com**



MβP®
Molecular BioProducts

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For additional trademark information, please see page 184.

Handheld Pipetting

Proven leadership in the palm of your hand.

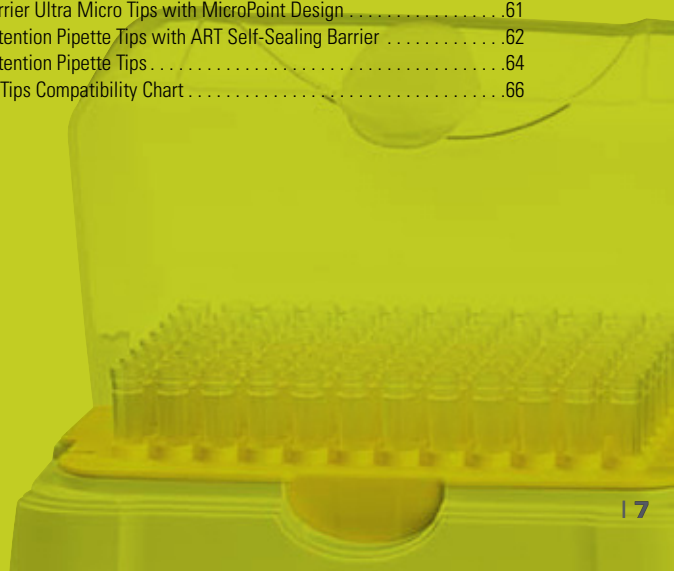
For 40 years, we have led the way in liquid handling and handheld pipetting products. Advanced ergonomics, dependable accuracy and precision, uncompromised safety – all are the hallmarks of our innovative product design. In 1971, we introduced the Thermo Scientific Finnpipette pipetter, the world's first continuously variable micropipetter. In 1976, we introduced the world's first multichannel pipetter. Since then, we have continuously enhanced our products to meet any pipetting challenge across the widest range of liquid handling applications.

Thermo Scientific Matrix pipetters are ergonomically designed to enhance user comfort and productivity while assuring accuracy of results. Thermo Scientific Matrix pipette tips and reservoirs are carefully designed to complement our pipetters, providing maximum performance and superior results. For the latest news and information regarding good laboratory pipetting, visit www.thermoscientific.com/GLP

With Molecular BioProducts (MBP) products, you can now choose from the largest selection of pipette tips in the world for virtually all of the leading pipetter brands in the industry.

For additional information about Thermo Scientific pipetting solutions, visit **thermoscientific.com/pipette.**

Handheld Pipetting



Thermo Scientific Finnpipette F1 Single Channel Pipetters

Finnpipette* F1 Fixed- and Adjustable-Volume Pipetters set the standard in pipetting with superior comfort and performance.

Our F1 pipetter incorporates state-of-the-art innovations for ease of use and proven results. The Advanced Volume Gearing mechanism (AVG) is a self-supporting modular volume adjustment mechanism that enhances pipetting performance. It also delivers dependable accuracy and precision with real durability with its separate pipetter body.

The F1 Adjustable-Volume Pipetter offers a simple "set-and-forget" lock mechanism to adjust the volume, adjustable finger rest, and soft touch tip ejection while an innovative antimicrobial treatment protects the instrument against contamination.

Details

- **Antimicrobial surface:** Silver (Ag) ions create a naturally inhibiting surface to prevent the growth of bacteria, microbes and fungus
- **"Set-and-forget" pipetting button** enables an easy locking mechanism for volume adjustment, and rotates freely when not locked to prevent accidental volume drift during pipetting
- **Adjustable finger rest** can be adjusted 120° for optimal pipetting position
- **Super blow-out** piston with volumes of 50 µL and below ensures delivery of micro-size drops
- **ID tag space** for personal markings, blank tags supplied with the pipetter

Ergonomics

- **Extremely light** and smooth plunger action reduces the risk of Repetitive Strain Injury (RSI)
- **Lightweight construction** enables longer pipetting periods without fatigue
- **Soft-touch tip ejector** reduces the tip ejection forces by up to 50%
- **Adjustable finger rest** for superior comfort

Ordering Information: Ideal for use with Thermo Scientific Finntip pipette tips, as specified in the ordering table

Includes: Finnpipette F1 pipetter, calibration tool, blank ID tags, shelf hanger, Instructions manual, and calibration certificate

Warranty: Five years with Web registration

F1 Fixed-Volume Pipetters

Cat. No.	Description	Accuracy	Precision
4651000	1 µL	±4.0%	4.0%
4651010	5 µL	±1.4%	1.4%
4651020	10 µL	±0.9%	0.8%
4651130	20 µL	±0.7%	0.5%
4651030	25 µL	±0.6%	0.5%
4651040	50 µL	±0.6%	0.4%
4651050	100 µL	±0.4%	0.3%
4651140	200 µL	±0.4%	0.3%
4651060	250 µL	±0.4%	0.3%
4651070	500 µL	±0.3%	0.3%
4651080	1000 µL	±0.3%	0.3%
4651090	2000 µL	±0.3%	0.2%
4651100	3000 µL	±0.3%	0.2%
4651110	5000 µL	±0.3%	0.2%
4651120	10000 µL	±0.3%	0.2%

F1 Adjustable-Volume Pipetters

Cat. No.	Range	Increments	Accuracy	Precision	Finntip	Color Code
4641010	0.2-2 µL, micro	0.002 µL	±12.0 to 2.5%	10.0 to 2.0%	Flex 10, 10, 50	Pink
4641020	0.5-5 µL, micro	0.01 µL	±6.0 to 1.5%	5.0 to 1.0%	Flex 10, 10, 50	Pink
4641030	1-10 µL, micro	0.02 µL	±2.5 to 1.0%	2.0 to 0.5%	Flex 10, 10, 50	Pink
4641040	1-10 µL	0.02 µL	±3.5 to 1.0%	3.0 to 0.8%	Flex 200, 250 Univ.	Yellow
4641050	2-20 µL, micro	0.02 µL	±3.0 to 1.0%	2.5 to 0.4%	50 micro	Turquoise
4641060	2-20 µL	0.02 µL	±3.0 to 1.0%	2.5 to 0.4%	Flex 200, 250 Univ.	Yellow
4641130	5-50 µL, micro	0.02 µL	±3.0 to 0.6%	2.5 to 0.3%	50 micro	Turquoise
4641140	5-50 µL	0.02 µL	±3.0 to 0.6%	2.5 to 0.3%	Flex 200, 300, 250 Univ, 200 Ext	Yellow
4641070	10-100 µL	0.2 µL	±3.0 to 0.8%	1.0 to 0.2%	Flex 200, 250 Univ., 300, 200 Ext.	Yellow
4641080	20-200 µL	0.2 µL	±1.8 to 0.6%	0.7 to 0.2%	Flex 200, 250 Univ., 300, 200 Ext.	Yellow
4641090	30-300 µL	1 µL	±1.5 to 0.6%	0.6 to 0.2%	Flex 300, 300	Orange
4641100	100-1000 µL	1 µL	±1.0 to 0.6%	0.6 to 0.2%	Flex 1000, 1000, 1000 Ext.	Blue
4641110	0.5-5 mL	0.01 mL	±2.0 to 0.5%	0.8 to 0.2%	5 mL	Green
4641120	1-10 mL	0.02 mL	±2.0 to 0.5%	0.8 to 0.2%	10 mL, Flex 10 mL Ext.	Red

Thermo Scientific Finnpipette F1 Multichannel Pipetters

Finnpipette F1 Multichannel Pipetters offer the perfect combination of design innovation and user comfort for maximum productivity.

As with the single-channel Finnpipette F1 pipetters, the AVG mechanism ensures a high level of accuracy and precision. The soft-touch tip ejection is especially useful on multichannel models, significantly reducing the effort needed to eject multiple tips. In addition, the super blow-out function in low volume models ensures accurate dispensing for even the smallest volumes.

Our multichannel pipetters are available in 8-, 12- and 16-channel models, with a selection of volume ranges, and work best with Thermo Scientific Finntips.

Details

- **Antimicrobial surface**: Silver (Ag) ions create a naturally-inhibiting surface to prevent the growth of bacteria, microbes and fungus
- **"Set-and-forget" pipetting button** enables an easy locking mechanism for volume adjustment, and rotates freely when not locked, preventing accidental volume drift during pipetting
- **Adjustable finger rest** can be adjusted 120° for optimal pipetting position
- **ID tag space** for personal markings, blank tags supplied with the pipetter
- **Super blow-out piston** with volumes of 50 µL and below ensures delivery of micro-size drops
- Compatible with 96-well and 384-well for both high and low volume microplates

Ergonomics

- **Soft-touch tip ejector** reduces the tip ejection forces by up to 50%
- **Extremely light** and smooth plunger action reduces the risk of Repetitive Strain Injury (RSI)
- **Lightweight construction** enables longer pipetting periods without fatigue

Ordering Information: Ideal for use with Thermo Scientific Finntip pipette tips, as specified in the ordering table

Includes: Finnpipette F1 multichannel pipetter, calibration tool, module removal tool, blank ID tags, shelf hanger, Instruction manual and calibration certificate

Warranty: Five years with Web registration

Cat. No.	Range	Increments	Accuracy	Precision	Finntip	Color Code
8-Channel						
4661000	1-10 µL	0.02 µL	±12.0 to 2.4%	8.0 to 1.6%	Flex 10, 10 micro, 50 micro	Pink
4661010	5-50 µL	0.1 µL	±5.0 to 1.5%	2.0 to 0.7%	Flex 200, 250 Univ., 200 Ext.	Yellow
4661020	10-100 µL	0.2 µL	±5.0 to 1.3%	2.0 to 0.5%	Flex 200, 250 Univ., 200 Ext.	Yellow
4661030	30-300 µL	1 µL	±5.0 to 1.0%	2.0 to 0.3%	Flex 300, 300	Orange
12-Channel						
4661040	1-10 µL	0.02 µL	±12.0 to 2.4%	8.0 to 1.6%	Flex 10, 10 micro, 50 micro	Pink
4661050	5-50 µL	0.1 µL	±5.0 to 1.5%	2.0 to 0.7%	Flex 200, 250 Univ., 200 Ext.	Yellow
4661060	10-100 µL	0.2 µL	±5.0 to 1.3%	2.0 to 0.5%	Flex 200, 250 Univ., 200 Ext.	Yellow
4661070	30-300 µL	1 µL	±5.0 to 1.0%	2.0 to 0.3%	Flex 300, 300	Orange
16-Channel						
4661080	1-10 µL	0.02 µL	±12.0 to 2.4%	8.0 to 1.6%	Flex 10 (384), 50 micro	Purple
4661090	5-50 µL	0.1 µL	±5.0 to 1.5%%	2.0 to 0.7%	50 micro	Turquoise

Thermo Scientific Finnpipette F1 GLP Kits

Finnpipette F1 GLP Kits include state-of-the-art Finnpipette F1 pipetters along with everything you need for superior pipetting.

All Finnpipette F1 Good Laboratory Pipetting kits offer superior performance plus unique features, including adjustable finger rest for user comfort, "set and forget" pipetting button, and an antimicrobial surface.

Each complete kit provides everything you need for good laboratory pipetting.

Details

- **Adjustable finger rest** for improved ergonomics and comfortability
- **"Set-and-forget" pipetting button** offers easy and secured volume adjustment
- **Antimicrobial surface** provides enhanced protection
- **Large easy-to-read display** prevents eye strain
- **Soft-touch tip ejector** enables light end effortless tip ejection

Ordering Information: The Finnpipette F1 GLP kit also includes samples of Finntip Flex tips for maximum performance and ergonomics, and a Good Laboratory Pipetting guide with extensive information about pipetting and factors that affect pipetting results.

Warranty: Five years with Web registration

Cat. No.	Description	Volume Range
4700850	F1 Kit 1 (1 to 1000 µL)	1-10 µL, 10-100 µL, 100-1000 µL
4700860	F1 Kit 2 (0.2 to 1000 µL)	0.2 µL, 2-20 µL, 20-200 µL, 100-1000 µL
4700865	F1 Kit 3 (10 to 10,000 µL)	10-100 µL, 100-1000 µL., 1000-10000 µL
4701060	F1 Kit 4 (2 to 2000 µL)	2-20 µL, 20-200 µL, 100-1000 µL

F1 Kit 1 (1-1000 µL)

Finnpipette F1, 1-10 µL
Finnpipette F1, 10-100 µL
Finnpipette F1, 100-1000 µL
Finntip Flex tips: 10, 1 × 96; 200, 1 × 96; 1000, 1 × 96
F-stand; F1 pen; F1 brochure
Good Laboratory Pipetting Guide
Reagent reservoir samples

F1 Kit 2 (0.2 to 1000 µL)

Finnpipette F1, 0.2-2 µL
Finnpipette F1, 2-20 µL univ
Finnpipette F1, 20-200 µL
Finnpipette F1, 100-1000 µL
Finntip Flex tips: 10, 1 × 96; 200, 2 × 96; 1000, 1 × 96
F-stand; F1 pen; F1 brochure
Good Laboratory Pipetting Guide
Reagent reservoir samples

F1 Kit 3 (10 to 10,000 µL)

Finnpipette F1, 10-100 µL
Finnpipette F1, 100-1000 µL
Finnpipette F1, 1000-10000 µL
Finntip Flex tips: 200, 1 × 96; 1000, 1 × 96; FT 10 mL, 1 × 24
F-stand; F1 pen; F1 brochure
Good Laboratory Pipetting Guide
Reagent reservoir samples

F1 Kit 4 (2 to 1000 µL)

Finnpipette F1, 2-20 µL
Finnpipette F1, 20-200 µL
Finnpipette F1, 100-1000 µL
Flex tips: (2) 200 µL, 10 × 96; 100-1000 µL, 10 × 96
F-stand; F1 pen; F1 brochure
Good Laboratory Pipetting Guide
Reagent reservoir samples

Thermo Scientific Finnpipette F2 Single Channel Pipetters

Finnpipette F2 Fixed- and Adjustable-Volume Pipetters are durable and fully autoclavable for everyday pipetting needs.

Experience superior comfort, performance, reliability, and repeatability in one of the lightest pipetters available. These pipetters include a Advanced Volume Gearing mechanism (AVG) – a self-supporting modular volume adjustment mechanism that enhances pipetting performance.

Details

- **Large Ergovisio display** with white numbers on black background for increased visibility
- **Double-action pipetting button** prevents accidental volume changes
- **Super blow-out piston** with volumes of 50 µL and below ensures delivery of micro-size drops
- **Fully autoclavable** for dependable contamination prevention
- **ID tag** space for personal markings; blank tags supplied with the pipetter

Ergonomics

- **Extremely light** and smooth plunger action reduces the risk of Repetitive Strain Injury (RSI)
- **Lightweight construction** enables longer pipetting periods without fatigue
- **Soft-touch tip ejector** reduces the tip ejection forces by up to 50%
- **Wide and supportive** finger rest for comfortable pipetting

Ordering Information: Ideal for use with Thermo Scientific Finntip pipette tips, as specified in the ordering table

Includes: Finnpipette F2 pipetter, calibration tool, blank ID tags, shelf hanger, instruction manual and calibration certificate

Warranty: Five years with Web registration

F2 Fixed-Volume Pipetters

Cat. No.	Description	Accuracy	Precision
4652000	1 µL	±4.0%	4.0%
4652010	5 µL	±1.4%	1.4%
4652020	10 µL	±0.9%	0.8%
4652030	25 µL	±0.6%	0.5%
4652040	50 µL	±0.6%	0.4%
4652050	100 µL	±0.4%	0.3%
4652060	250 µL	±0.4%	0.3%
4652070	500 µL	±0.3%	0.3%
4652080	1000 µL	±0.3%	0.3%
4652090	2000 µL	±0.3%	0.2%
4652100	3000 µL	±0.3%	0.2%
4652110	5000 µL	±0.3%	0.2%
4652120	10000 µL	±0.3%	0.2%
4652130	20 µL	±0.6%	0.5%
4652140	200 µL	±0.4%	0.3%

F2 Adjustable-Volume Pipetters

Cat. No.	Range	Increments	Accuracy	Precision	Compatible Tips	Color Code
4642010	0.2-2 µL, micro	0.002 µL	±12.0 to 2.5%	10.0 to 2.0%	Flex 10, 10, 50	Pink
4642020	0.5-5 µL, micro	0.01 µL	±6.0 to 1.5%	5.0 to 1.0%	Flex 10, 10, 50	Pink
4642030	1-10 µL, micro	0.02 µL	±2.5 to 1.0%	2.0 to 0.5%	Flex 10, 10, 50	Pink
4642040	1-10 µL	0.02 µL	±3.5 to 1.0%	3.0 to 0.8%	Flex 200, 250 Univ.	Yellow
4642050	2-20 µL, micro	0.02 µL	±3.0 to 1.0%	2.5 to 0.4%	50 micro	Turquoise
4642060	2-20 µL	0.02 µL	±3.0 to 1.0%	2.5 to 0.4%	Flex 200, 250 Univ.	Yellow
4642120	5-50 µL, mico	0.1 µL	±0.3 to 0.15%	2.5 to 0.3%	50 micro	Turquoise
4642130	5- 50 µL	0.1 µL	±0.3 to 0.15%	2.5 to 0.3%	Flex 200, Flex 300, 250 Univ., 200 Ext.	Yellow
4642070	10-100 µL	0.2 µL	±3.0 to 0.8%	1.0 to 0.2%	Flex 200, 250 Univ., 300, 200 Ext.	Yellow
4642080	20-200 µL	0.2 µL	±1.8 to 0.6%	0.7 to 0.2%	Flex 200, 250 Univ., 300, 200 Ext.	Yellow
4642090	100-1000 µL	1 µL	±1.0 to 0.6%	0.6 to 0.2%	Flex 1000, 1000, 1000 Ext.	Blue
4642100	0.5-5 mL	0.01 mL	±2.0 to 0.5%	0.8 to 0.2%	5 mL	Green
4642110	1-10 mL	0.02 mL	±2.0 to 0.5%	0.8 to 0.2%	10 mL, Flex 10 mL Ext.	Red

Thermo Scientific Finnpipette F2 Multichannel Pipetters

The Finnpipette F2 Multichannel Pipetter includes an Advanced Volume Gearing mechanism (AVG) that provides a high level of accuracy and precision.

AVG is a self-supporting modular volume adjustment mechanism that enhances pipetting performance. Because it is separated from the pipetter body, its accuracy, precision and durability are significantly improved. The AVG mechanism is thermally isolated from the pipetter body, minimizing the effects of hand warmth on the accuracy.

These multichannel pipetters are available in 8-, 12- and 16-channel models with a selection of volume ranges. As with the single-channel Finnpipette F2 pipetters, the AVG mechanism ensures a high level of accuracy and precision. In addition, the super blow-out function in the low volume models provides accurate dispensing for even the smallest volumes.

Details

- **Large Ergovisio** display with white numbers on black background for increased visibility
- **Double-action pipetting button:** prevents accidental volume changes
- **ID tag** space for personal markings, blank tags supplied with the pipetter
- **Super blow-out piston** with volumes of 50 µL and below ensures delivery of micro-size drops
- **Fully autoclavable:** entire pipetter can be autoclaved in one piece for convenient decontamination prevention
- **Wide, supportive finger rest** for user comfort

Ergonomics

- **Soft-touch tip ejector** reduces the tip ejection forces by up to 50%
- **Extremely light** and smooth plunger action reduces the risk of Repetitive Strain Injury (RSI)
- **Lightweight construction** enables longer pipetting periods without fatigue

Ordering Information: Ideal for use with Thermo Scientific Finntip pipette tips, as specified in the ordering table

Includes: Finnpipette F2 multichannel pipetter, calibration tool, module removal tool, blank ID tags, shelf hanger, instruction manual and calibration certificate

Warranty: Five years with Web registration

Cat. No.	Range	Increment	Accuracy	Precision	Finntip	Color Code
8-Channel						
4662000	1-10 µL	0.02 µL	±12.0 to 2.4%	8.0 to 1.6%	Flex 10, 10, 50	Pink
4662010	5-50 µL	0.1 µL	±5.0 to 1.5%	2.0 to 0.7%	Flex 200, 250 Univ., 200 Ext.	Yellow
4662020	10-100 µL	0.2 µL	±5.0 to 1.3%	2.0 to 0.5%	Flex 200, 250 Univ., 200 Ext.	Yellow
4662030	30-300 µL	1 µL	±5.0 to 1.0%	2.0 to 0.3%	Flex 300, 300	Orange
12-Channel						
4662040	1-10 µL	0.02 µL	±12.0 to 2.4%	8.0 to 1.6%	Flex 10, 10, 50	Pink
4662050	5-50 µL	0.1 µL	±5.0 to 1.5%	2.0 to 0.7%	Flex 200, 250 Univ., 200 Ext.	Yellow
4662060	10-100 µL	0.2 µL	±5.0 to 1.3%	2.0 to 0.5%	Flex 200, 250 Univ., 200 Ext.	Yellow
4662070	30-300 µL	1 µL	±5.0 to 1.0%	2.0 to 0.3%	Flex 300, 300	Orange
16-Channel						
4662080	1-10 µL	0.02 µL	±12.0 to 2.4%	8.0 to 1.6%	Flex 10 (384), 50 micro	Purple
4662090	5-50 µL	0.1 µL	±5.0 to 1.5%	2.0 to 0.7%	50 micro	Turquoise

Thermo Scientific Finnpipette F2 GLP Kits

Finnpipette F2 GLP Kits provide durable, high-performance Finnpipette F2 pipetters in an all-inclusive kit containing everything you need for convenient, superior pipetting.

Finnpipette F2 pipetters feature an AVG (Advanced Volume Gearing mechanism) and a large display for improved usability and comfort.

Each complete kit offers everything you need for good laboratory pipetting.

Details

- **AVG: Volume gearing mechanism** for accuracy and precision
- **Fully autoclavable** for dependable protection
- **Soft-touch tip ejection** enables light tip ejection
- **Large display** prevents eye strain
- **Very light** pipetting forces for greater accuracy with less fatigue

Ordering Information: The Finnpipette F2 GLP kit includes samples of Finntip Flex tips – the most advanced traditional tip – offering very low attachment and ejection forces. The Good Laboratory Pipetting Guide contains comprehensive pipetting information, from choosing the right type to detailed decontamination procedures.

Warranty: Five years with Web registration

Cat. No.	Description	Volume Range
4700870	F2 Kit 1 (1 to 1000 µL)	1-10 µL, 10-100 µL, 100-1000 µL
4700880	F2 Kit 2 (0.2 to 1000 µL)	0.2 µL, 2-20uL, 20-200 µL, 100-1000 µL
4700885	F2 Kit 3 (10 to 10,000 µL)	10-100 µL, 100-1000 µL, 1000-10000 µL
4701070	F2 Kit 4 (2 to 2000 µL)	2-20 µL, 20-200 µL, 100-1000 µL

F2 Kit 1 (1-1000 µL)

Finnpipette F2, 1-10 µL
Finnpipette F2, 10-100 µL
Finnpipette F2, 100-1000 µL
Flex tips: 10, 1 × 96; 200, 1 × 96; 1000, 1 × 96
F-stand; F2 pen; F2 brochure
Good Laboratory Pipetting Guide
Reagent reservoir demo pack

F2 Kit 2 (0.2 to 1000 µL)

Finnpipette F2, 0.2-2 µL
Finnpipette F2, 2-20 µL univ
Finnpipette F2, 20-200 µL
Finnpipette F2, 100-1000 µL
Flex tips: 10, 12 × 96; 200, 2 × 96; 1000, 1 × 96
F-stand; F2 pen; F2 brochure
Good Laboratory Pipetting Guide
Reagent reservoir demo pack

F2 Kit 3 (10 to 10,000 µL)

Finnpipette F2, 10-100 µL
Finnpipette F2, 100-1000 µL
Finnpipette F2, 1000-10000 µL
Flex tips: 200, 1 × 96; 1000, 1 × 96; FT 10 mL, 1 × 24
F-stand; F2 pen; F2 brochure
Good Laboratory Pipetting Guide
Reagent reservoir demo pack

F2 Kit 4 (2 to 1000 µL)

Finnpipette F2, 2-20 µL
Finnpipette F2, 20-200 µL
Finnpipette F2, 100-1000 µL
Flex tips: (2) 200 µL, 10 × 96; 100-1000 µL, 10 × 96
F-stand; F2 pen; F2 brochure
Good Laboratory Pipetting Guide
Reagent reservoir demo pack

Thermo Scientific Finnpipette Stepper Pipetter

The Finnpipette Stepper Pipetter is a lightweight, easy-to-use repeater pipetter designed for one-handed dispensing.

Our lightweight, ergonomically-designed pipetter allows you to rapidly dispense up to 45 times in succession without refilling. Operating on the positive displacement principle, the Finnpipette Stepper is ideally suited for work with aggressive and viscous liquids.

Details

- **Makes up to 45 deliveries** before refilling is necessary
- **Positive displacement design** ensures accurate results, even for viscous, volatile or other problematic liquids
- **Lightweight, ergonomic handle** and wide finger rest minimize operator hand strain
- **Operation is simple** – just attach the appropriate tip size, fill and prime the tip, and dial the selected volume
- **Volume is easy to set**, with the aid of the convenient volume-setting chart located on the handle

Ergonomics

- **Universal handle** also fits the multichannel Finntip Steppers
- **Lightweight construction** minimizes hand fatigue during repetitive dispensing
- **Separate tip ejector** for safe and effortless tip disposal
- **Wide finger rest** minimizes operator hand strain
- **Module rotates a full 360°**, optimizing efficiency for both right and left-handed users

Ordering Information: Universal Stepper handle is also available with an eight-channel module. For convenient storage, pipetter stand is available (Cat. No. 14-387-14)

Includes: Unit comes with one adapter (nonsterile) necessary for use with 25 or 50 mL tips

Required Accessories: Uses the Thermo Scientific Finntip Stepper tip, a plunger-style tip available in nonsterile or sterile (individually wrapped) form. This tip comes in seven sizes from 0.5 to 50 mL, each with five different delivery volumes, for an overall dispensing range of 10 to 5000 µL. Only the disposable tip comes in contact with the sample, eliminating the risk of contaminating the pipetter body.

Cat. No.	Description	Volume Range
4540 000	Finnpipette Stepper	10-5000 µL

Thermo Scientific Finnpipette Multistepper Pipetter

The Finnpipette Multistepper Pipetter reduces the risk of error and increases productivity in immunoassay applications.

This lightweight, easy-to-use repeater pipetter provides simultaneous dispensing via eight channels. Designed especially for work with microplates, the Finnpipette Multistepper accelerates routine laboratory procedures for greater productivity.

Details

- **8-channel air-displacement pipetter**, designed especially for work with microplates
- **Easy to use** – simply attach, fill, and prime the module and dial the selected volume
- **Delivers 50, 100, 150, 200, or 250 µL**
- **With a single loading** it can deliver 24 x 50 µL=192 wells, 12 x 100 µL=96 wells, 8 x 150 µL=64 wells, 6 x 200 µL=48 wells, or 5 x 250 µL=40 wells
- **All eight channels are calibrated** to simultaneously dispense exactly the same volume of liquid
- **Pipetter capacity:** 1250 µL
- **Accuracy:** ±5.0 to 2.0%; precision: 5.0 to 2.0%
- **Handy volume chart** on the handle lets you know the maximum number of deliveries possible at a given volume setting

Ergonomics

- **Universal handle** also fits the seven single-channel Finntip Steppers
- **Lightweight construction** minimizes hand fatigue during repetitive dispensing
- **Separate tip ejector** for safe and effortless tip disposal
- **Wide finger rest** minimizes operator hand strain
- **Module rotates a full 360°**, optimizing efficiency for both right and left-handed users

Ordering Information: Accepts Finntip Multistepper 1500 µL tips that are extra long, with more air space between the liquid and tip cone to prevent contamination

Cat. No.	
4540-500	Handle and module
2206-590	8-Channel Module only

Cat. No.	Channels	Capacity	Disp.vol.	Increment	Volume	Inaccuracy		Imprecision		Finntip
			µL			µL	%	s.d.* µL	CV %*	
4540 500 1)	8	1250 µL	50-250	50 µL	250 µL	±5.0	±2.0	5.0	2.0	Multistepper
2206 590 2)	8	1250 µL	50-250	50 µL	250 µL	±5.0	±2.0	5.0	2.0	Multistepper

** s.d. = Standard Deviation, CV = Coefficient of Variation ** Factory calibration limits. 1) Handle and module 2) Module only*

Thermo Scientific Finnpipette Novus Single Channel Electronic Pipetters

Finnpipette Novus Single Channel Electronic Pipetters offer performance with simple operation and reduced stress for comfortable, productive pipetting.

Finnpipette Novus delivers performance with greater ease of use and reduced risk of injury. Unique to Novus, the adjustable index-finger trigger action reduces common repetitive stress injuries caused by thumb-driven pipettes, and the easy-to-follow prompts guide Novus users through 10 pipetting functions.

Details

- **Intuitive user interface** features a simple button layout and no abbreviations
- **Seven languages**: Operate in the user's native language (English, French, German, Italian, Japanese, Spanish, Swedish)
- **Backlit technology** eliminates surrounding light reflections and improves contrast in low-light conditions
- **10 pipetting functions and nine aspirate/dispense speeds:** Ultimate in flexibility with options not available in manual pipettes
- **Personalize up to nine programs** for your most common protocols: Save time and ensure accurate and precise pipetting
- **Easy in-lab, 2- or 1-point calibration**: Provides accurate and precise results in different applications
- **Fully autoclavable tip cone**: Prevents cross-contamination
- **Long-life lithium-ion battery** allows approximately 4,000 pipetting operations; recharges in approximately one hour
- **A large volume range from 1 µL up 10 mL**: Meets virtually any application need

Ergonomic Design

- **Natural index finger pipetting operation:** Lets the thumb relax while pipetting
- **Adjustable finger rest**: For balance and comfort
- **Soft-touch tip ejection**: Minimizes thumb strain
- **Extremely lightweight construction**: Work longer without fatigue

Ordering Information: Ideal for use with Thermo Scientific Finntip pipette tips as specified in the ordering table. Also compatible with most universal-fit tips.

Includes: Finnpipette Novus, Universal charger, service tool, instruction manual and calibration certificate

Warranty: Two years with Web registration

Cat. No.	Volume Range (calibration)	Volume Range (functional**)	Increment	Accuracy %*	Precision %*	Color code	Compatible Finntip
46200000	1-10 µL micro	0.5-10 µL	0.01 µL	±3.5 to ±1.0	3.0 to 0.5	Pink	Flex 10, 10, 20 micro, 50 micro
46200100	1-10 µL	0.5-10 µL	0.01 µL	±7.0 to ±1.0	6.0 to 0.5	Yellow	Flex 200, 250 Univ., 200 Ext.
46200200	5-50 µL micro	2.5-50 µL	0.1 µL	±3.0 to ±0.8	2.5 to 0.3	Turquoise	50
46200300	5-50 µL	2.5-50 µL	0.1 µL	±3.0 to ±0.8	2.5 to 0.3	Yellow	Flex 200, 250 Univ., 200 Ext.
46200400	10-100 µL	5-100 µL	0.1 µL	±3.0 to ±0.8	1.0 to 0.2	Yellow	Flex 200, 250 Univ., 200 Ext.
46200500	30-300 µL	15-300 µL	1 µL	±3.0 to ±0.6	0.7 to 0.2	Orange	Flex 300 , 300
46200600	100-1000 µL	50-1000 µL	1 µL	±3.0 to ±0.6	0.6 to 0.2	Blue	Flex 1000, 1000, 1000 Ext.
46200700	0.5-5 mL	0.25-5 mL	0.01 mL	±3.0 to ±0.6	0.8 to 0.2	Green	5 mL
46200800	1-10 mL	0.5-10 mL	0.01 mL	±3.0 to ±0.6	0.8 to 0.2	Red	10 mL, Flex 10 mL Ext.

**Factory calibration limits achieved under strictly controlled conditions (ISO 8655).*
***The Functional volume range indicates the volume range that the pipette can cover in the Stepper, Sequential Stepper and Sequential Aspirate functions.*

Thermo Scientific Finnpipette Novus Multichannel Electronic Pipetters

Finnpipette Novus Multichannel Pipetters offer superior performance for microplate applications.

Finnpipette Novus pipetters deliver outstanding performance with greater ease of use and less risk of injury. Unique to Novus pipetters, the adjustable index-finger trigger action prevents common repetitive stress injuries caused by thumb-driven pipettes, and the easy-to-follow prompts guide users through 10 pipetting functions.

Repetitive dispensing with stepper functionality excels at filling microplates by saving time and effort compared to manual pipetters. Dispensing of two selected volumes with an air cap between, followed by a mix step with DILUTE+MIX function, is excellent for the preparation of standard curves. The Novus 1200 µL 8-channel pipette is ideal for high volume stepping of an entire plate, (e.g., dispense 100 µL up to 12 columns). The pipetter is also a practical tool for filling high volume deep well plates. For 384-microplate applications, choose the Novus 16-channel model.

Details

- **Intuitive user interface** features a simple button layout and no abbreviations
- **Seven languages**: Operate in the user's native language (English, French, German, Italian, Japanese, Spanish, Swedish)
- **Backlit technology** eliminates surrounding light reflections and improves contrast in low-light conditions
- **10 pipetting functions and nine aspirate/dispense speeds**: Ultimate in flexibility and variety not available in manual pipettes
- **Personalize up to nine programs** for your most common protocols: Save time and ensure accurate and precise pipetting
- **Easy in-lab, 2- or 1-point calibration**: For accurate and precise results in different applications
- **Fully autoclavable tip cones*****: Prevents cross-contamination
- **Long-life lithium-Ion battery** allows approximately 4,000 pipetting operations; recharges in approximately one hour
- **A large volume range from 1 µL up 1200 µL**: Accommodates many applications

Ergonomic Design

- **Natural index finger pipetting operation:** Lets the thumb relax while pipetting
- **Adjustable finger rest**: For balance and comfort
- **Soft-touch tip ejection**: Minimizes thumb strain
- **Extremely lightweight construction**: Work longer without fatigue

Ordering Information: Ideal for use with Thermo Scientific Finntip pipette tips, as specified in the ordering table. Also compatible with most universal-fit tips.

Includes: Finnpipette Novus, universal charger, service tool, instruction manual and calibration certificate

Warranty: Two years with Web registration

Cat. No.	Channels	Range (calibration)	Range (functional**)	Increment	Accuracy %*	Precision %*	Color code	Compatible Finntip
46300000	8	1-10 µL	0.5-10 µL	0.1 µL	±12.0 to ±2.4	8.0 to 1.6	Pink	Flex 10, 10, 20 micro, 50 micro
46300100	12	1-10 µL	0.5-10 µL	0.1 µL	±12.0 to ±2.4	8.0 to 1.6	Pink	Flex 10, 10, 20 micro, 50 micro
46300200	8	5-50 µL	2.5-50 µL	0.1 µL	±5.0 to ±1.5	2.0 to 0.7	Yellow	Flex 200, 200 Ext, 250
46300300	12	5-50 µL	2.5-50 µL	0.1 µL	±5.0 to ±1.5	2.0 to 0.7	Yellow	Flex 200, 200 Ext, 250
46300700	16	5-50 µL	2.5-50 µL	0.1 µL	±5.0 to ±1.5	2.0 to 0.7	Turquoise	50
46300400	8	30-300 µL	15-300 µL	1 µL	±5.0 to ±1.0	2.0 to 0.3	Orange	Flex 300, 300
46300500	12	30-300 µL	15-300 µL	1 µL	±5.0 to ±1.0	2.0 to 0.3	Orange	Flex 300, 300
46300800	8	100-1200 µL	50-1200 µL	1 µL	±3.0 to ±1.0	0.9 to 0.2	Turquoise	Flex 1200

**Factory calibration limits achieved under strictly controlled conditions (ISO 8655). **The Functional volume range indicates the volume range that the pipette can cover in the Stepper, Sequential Stepper and Sequential Aspirate functions. ***Except the 8-channel 1200 µL model*

Thermo Scientific Finnpipette Dispensers

Finnpipette Dispensers – a superior tool for dosing liquids from reagent bottles.

Finnpipette Dispensers protect users even when handling aggressive liquids. Six models are available, covering volumes between 0.2 and 60 mL.

Details

- Ergonomically designed, non-slip piston handle
- Excellent chemical and thermal resistance
- Fully autoclavable without disassembling
- Precise self-locking system in the volume setting
- Volumes are absolutely reproducible
- Dispensing head cap prevents dripping
- Universal fit for reagent bottles
- Ergonomic design prevents work fatigue
- Comprehensive volume range
- Threaded suction hose for bubble-free suction

Ergonomics:

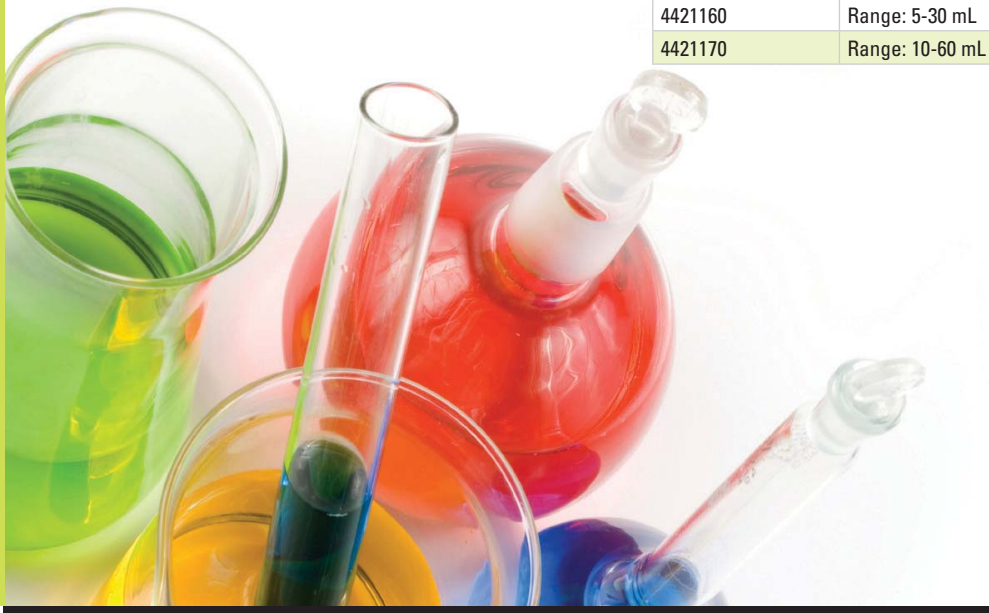
- Ergonomic and non-slip handle knob
- Dispenser surface roughened for non-slip grip
- Easy to adjust volume adjustment wheel

Warranty: One year

Certifications: Individual calibration certificate with serial number

Notes: Limitations include HF, liquids that attack Halar, FEP or Hastelloy suspensions because solid particles might block the valves.

Cat. No.	Description	Accuracy	Precision
4421120	Range: 0.2-1.0 mL	±6.0 µL	2.0 µL
4421130	Range: 0.4-2.0 mL	±12.0 µL	4.0 µL
4421140	Range: 1-5 mL	±30.0 µL	10.0 µL
4421150	Range: 2-10 mL	±60.0 µL	20.0 µL
4421160	Range: 5-30 mL	±180 µL	60.0 µL
4421170	Range: 10-60 mL	±360 µL	120 µL



Thermo Scientific Finnpipette Accessories

Finnpipette Stands provide safe and convenient manual and electronic pipetter storage.

The Finnpipette F-stand accommodates six pipettes. The sturdy crossbar structure with a slot for each pipetter enables it to sit snugly in the stand. The Finnpipette F-stand is suitable for both single channel and multichannel models.

The Finnpipette multichannel stand is a multi-position stand for a multichannel pipetter. The pipetter can be stored in an upright or horizontal position. The stand has a small footprint and can hold any multichannel Finnpipette.

The Finnpipette Novus stand is designed for convenient storage of an electronic Finnpipette Novus pipetter. Both single channel and multichannel Finnpipette Novus models can be accommodated with ease.

Finnpipette F-stand

Cat. No.	Stands for Manual and Electronic Finnpipettes	Qty./ Unit
9420400	F-Stand, Linear Stand, white, 6 positions	1
9420390	Multichannel Pipetter Stand, 1 position	1
9420290	Pipette Stand, gray, for 6 pipetters	1
9420320	Pipette Mini-stand, gray, for 3 pipetters	1
9420340	Carousel Stand, for 6 manual or 3 electronic pipetters, including cover	1
2206040	Finnpipette Shelf Hanger	1
9420360	Novus Single Pipetter Stand	1
2209480	Novus Adapter for Carousel Stand (3 pcs)	3
2209490	Novus Adapter for Carousel Stand (1 pc)	1

Finnpipette multichannel stand

Cat. No.	Finnpipette Dispenser Accessories	
4421260	Bottle Adapters A25 & A38 (one of each)	2
4421270	Extended Suction Tube, 0,2-10 mL	1
4421280	Extended Suction Tube, 5-60 mL	1
4421290	Extended Discharge Tubing, 0,2-10 mL	1
4421300	Extended Discharge Tubing, 5-60 mL	1

Finnpipette Novus stand

Thermo Scientific Reagent Reservoirs

Reservoir 100 mL

Reservoir 25 mL

Reservoir 25 mL divided

Our Reagent Reservoirs provide a wide variety of solutions to support all of your pipetting procedures.

Our product innovation extends beyond Thermo Scientific pipetters and tips. Even our reagent reservoirs have been designed to provide tailored solutions. Four variations of reservoirs are available: 25 mL, 25 mL with divider, 100 mL and a reusable polypropylene 75 mL reservoir.

Details

- **Single use reservoirs:** 25 mL, 25 mL divided and 100 mL
- **Trough within a trough** maximizes the amount of liquid accessible to pipette tips when using small amounts of reagent
- **Pour-off spouts on all four corners** reduce spillage when pouring reagents out of reservoir
- **Graduations on inside wall** enable quick measurement of remaining liquid
- **Extra-wide base** adds rigidity and stability to reservoir, helping to avoid spills
- **25 mL divided reservoir** allows the pipetting of two different reagents with up to eight channels on one side, and up to four on the other; maximizes recovery if using only single channel and a small amount of reagent
- **Sterile reservoirs** are packaged in snap-and-tear bags for sterility and easy opening

60 mL reagent basin

- Unique V-shape: ideally suited for multichannel pipetters
- Autoclavable polypropylene

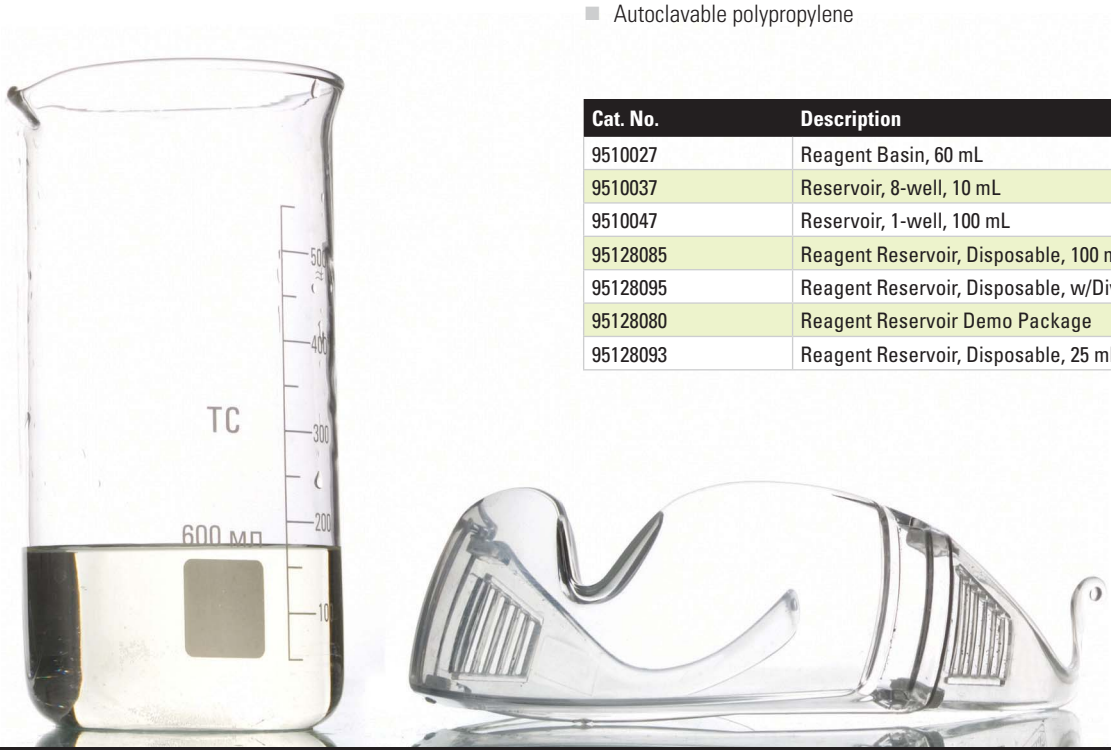
8-Channel reagent vessel

- Capacity: 10 mL/channel
- Autoclavable polypropylene

100 mL reagent basin

- Capacity: 100 mL
- Autoclavable polypropylene

Cat. No.	Description
9510027	Reagent Basin, 60 mL
9510037	Reservoir, 8-well, 10 mL
9510047	Reservoir, 1-well, 100 mL
95128085	Reagent Reservoir, Disposable, 100 mL
95128095	Reagent Reservoir, Disposable, w/Divider, 25 mL
95128080	Reagent Reservoir Demo Package
95128093	Reagent Reservoir, Disposable, 25 mL



Centrifugation

Depend on the full range of superior Thermo Scientific solutions...

Thermo Scientific general purpose benchtop centrifuges combine exceptional capacity and maximum throughput with proven ergonomic design and outstanding energy efficiency. Accelerate your sample preparation with Thermo Scientific innovative technologies, including:

- **ClickSeal® biocontainment rotor lids for one-handed, certified sample protection**
- **Secure, push-button Auto-Lock® rotor exchange for application versatility**
- **Broad rotor selection, including our lightweight Thermo Scientific Fiberlite® carbon fiber rotors, providing high performance and increased capacity**

From microcentrifuges and benchtop instruments to advanced floor models and innovative carbon fiber rotors – our centrifuge systems deliver outstanding performance and reliability in the lab.

Thermo Scientific Finntip Compatibility Chart

	Finntip (sterile and non-sterile)																Finntip Filter (sterile)																		
Finnpipette	10 micro	10 Flex micro	20 micro	50 micro	250 univ	200 Ext	200 Flex	300	300 Flex	1000 Ext	1000	1000 Flex	1200 Flex	5 mL	10 mL	10 mL Flex Ext	10 Flex micro	10 micro	10 univ	20 micro	20 univ	30 Flex	30 univ	50 micro	100 Flex	100 Ext	100 univ	200 Flex	200 Ext	200 univ	300 Flex	300	1000 Ext	1000	1000 Flex	1200 Flex	5 mL	10 mL	10 mL Flex Ext
F1 0.2-2 µL	•	•	•	•													•	•		•				•														
F1 0.5-5 µL	•	•	•	•													•	•		•				•														
F1 1-10 µL micro	•	•	•	•													•	•		•				•														
F1 1-10 µL					•	•	•	•	•										•		•	•	•															
F1 2-20 µL micro			•	•																•				•														
F1 2-20 µL					•	•	•	•	•												•	•	•															
F1 5-50 µL micro				•																				•														
F1 5-50 µL					•	•	•	•	•																•	•	•	•	•	•	•							
F1 10-100 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F1 20-200 µL					•	•	•	•	•																			•	•	•	•	•						
F1 30-300 µL								•	•																						•	•						
F1 100-1000 µL										•	•	•	•																				•	•	•	•			
F1 0.5-5 mL														•																							•		
F1 1-10 mL															•	•																						•	•
F1 8-ch 1-10 µL	•	•	•	•													•	•		•				•														
F1 12-ch 1-10 µL	•	•	•	•													•	•		•				•														
F1 8-ch 5-50 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F1 12-ch 5-50 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F1 8-ch 10-100 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F1 12-ch 10-100 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F1 8-ch 30-300 µL								•	•																						•	•						
F1 12-ch 30-300 µL								•	•																						•	•						
F1 16-ch 1-10 µL			•	•																•				•														
F1 16-ch 5-50 µL				•																				•														
F2 0.2-2 µL	•	•	•	•													•	•		•				•														
F2 0.5-5 µL	•	•	•	•													•	•		•				•														
F2 1-10 µL micro	•	•	•	•													•	•		•				•														
F2 1-10 µL					•	•	•	•	•										•		•	•	•															
F2 2-20 µL micro			•	•																•				•														
F2 2-20 µL					•	•	•	•	•												•	•	•															
F2 5-50 µL micro				•																				•														
F2 5-50 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F2 10-100 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F2 20-200 µL					•	•	•	•	•																			•	•	•	•	•						
F2 100-1000 µL										•	•	•	•																				•	•	•	•			
F2 0.5-5 mL														•																							•		
F2 1-10 mL															•	•																						•	•
F2 8-ch 1-10 µL	•	•	•	•													•	•		•				•														
F2 12-ch 1-10 µL	•	•	•	•													•	•		•				•														
F2 8-ch 5-50 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F2 12-ch 5-50 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F2 8-ch 10-100 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F2 12-ch 10-100 µL					•	•	•	•	•																•	•	•	•	•	•	•	•						
F2 8-ch 30-300 µL								•	•																						•	•						
F2 12-ch 30-300 µL								•	•																						•	•						
F2 16-ch 1-10 µL			•	•																•				•														
F2 16-ch 5-50 µL				•																				•														
Novus 1 - 10 µL micro	•	•	•	•													•	•		•				•														
Novus 1 - 10 µL					•	•	•	•	•										•		•	•	•															
Novus 5 - 50 µL micro				•																				•														
Novus 5 - 50 µL					•	•	•	•	•																•	•	•											
Novus 10 - 100 µL					•	•	•	•	•																•	•	•	•	•	•								
Novus 30 - 300 µL								•	•																						•	•						
Novus 100 - 1000 µL										•	•	•	•																				•	•	•	•			
Novus 0.5 - 5 mL														•																							•		
Novus 1 - 10 mL															•	•																						•	•
Novus 8-ch 1 - 10 µL	•	•	•	•													•	•		•				•														
Novus 12-ch 1 - 10 µL	•	•	•	•													•	•		•				•														
Novus 8-ch 5 - 50 µL					•	•	•	•	•																•	•	•											
Novus 12-ch 5 - 50 µL					•	•	•	•	•																•	•	•											
Novus 8-ch 30 - 300 µL								•	•																						•	•						
Novus 12-ch 30 - 300 µL								•	•																						•	•						
Novus 8-ch 100-1200 µL													•																							•		
Novus 16-ch 5 - 50 µL				•																				•														

Thermo Scientific Finntip Pipette Tips

Finntip* pipette tips are manufactured using high quality materials and the latest molding techniques for proven reliability.

Thermo Scientific Finntip pipette tips are designed for full compatibility with their matching Finnpipette pipetters, providing a perfect sealing of the tip along with optimum pipetting accuracy and precision. Manufactured with highest quality materials in automated production facilities, Finntip pipette tips deliver a superior pipetting solution for discerning users.

The Finntip product line covers a wide volume range from 0.2 µL to 10 mL. Available offerings include standard pipette tips as well as macro volume, extended, wide orifice and filtered designs in various packaging options. Also available are sterile racked tips that are certified free from DNA, DNase, RNase and endotoxin.

Details

- Manufactured from highest quality virgin polypropylene raw materials
- Versatile product offering including macro volume, extended, wide orifice and filtered design
- Wide volume range of 0.2 µL to 10 mL
- Sterile product versions certified free from DNA, DNase, RNase and endotoxin available
- Color-coded racks to match the compatible Finnpipette pipette

Pipetter Compatibility: Finntip pipette tips are optimized for use with Finnpipette pipetters. The universal design enables the compatibility also with pipetters from other manufacturers.

Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485 (CE/IVD certified).

Cat. No.	Description	Packaging Type	Compatible Finnpipettes
Finntip 10, 0.2-10 µL, 3.2 cm, Pink			
9400310	Finntip 10	1000/bag	F1 (4641010, 4641020, 4641030, 4661000, 4661040), F2 (4642010, 4642020, 4642030, 4662000, 4662040), Novus (46200000, 46300000, 46300100)
9400300	Finntip 10	10 × 96/rack	
9400303	Finntip 10 sterile	10 × 96/rack	
9400326	Finntip 10 refill starter kit	4 × 192/rack + 10 × 192/refill	
9400327	Finntip 10 refill	20 × 192/refill	
Finntip 20, 0.2-20 µL, 3.3 cm, Purple			
9400620	Finntip 20	1000/bag	F1 (4641010, 4641020, 4641030, 4641050, 4661000, 4661040, 4661080), F2 (4642010, 4642020, 4642030, 4642050, 4662000, 4662040, 4662080), Novus (46200000, 46300000, 46300100)
9400610	Finntip 20	10 × 384/rack	
9400613	Finntip 20 sterile	10 × 384/rack	
Finntip 50, 0.2-50 µL, 4.8 cm, Turquoise			
9400360	Finntip 50	1000/bag	F1 (4641010, 4641020, 4641030, 4641050, 4641130, 4661000, 4661040, 4661080, 4661090), F2 (4642010, 4642020, 4642030, 4642050, 4642120, 4662000, 4662040, 4662080, 4662090), Novus (46200000, 46200200, 46300000, 46300100, 46300700)
9400370	Finntip 50	10 × 384/rack	
9400373	Finntip 50 sterile	10 × 384/rack	

Cat. No.	Description	Packaging Type	Compatible Finnpipettes
Finntip 200 Ext, 5-200 µL, 7.8 cm, Orange			
9400100	Finntip 200 Ext	400/box	F1 (4641040, 4641060, 4641140, 4641070, 4641080, 4661010, 4661020, 4661050, 4661060), F2 (4642040, 4642060, 4642130, 4642070, 4642080, 4662010, 4662050, 4662020, 4662060), Novus (46200100, 46200300, 46200400, 46300200, 46300300)
9400130	Finntip 200 Ext	10 × 96/rack	
9400133	Finntip 200 Ext sterile	10 × 96/rack	
Finntip 250 Universal, 0.5-250 µL, 5.2 cm, Yellow			
9400250	Finntip 250 Universal	500/box	F1 (4641040, 4641060, 4641140, 4641070, 4641080, 4661010, 4661020, 4661050,4661060), F2 (4642040, 4642060, 4642130, 4642070, 4642080, 4662010, 4662050, 4662020, 4662060), Novus (46200100, 46200300, 46200400, 46300200, 46300300)
9400230	Finntip 250 Universal	1000/bag	
9400220	Finntip 250 Universal	20,000/bulk	
9400260	Finntip 250 Universal	10 × 96/rack	
9400263	Finntip 250 Universal sterile	10 × 96/rack	
9400266	Finntip 250 Universal refill starter kit	4 × 96/rack + 10 × 96/refill	
9400267	Finntip 250 Universal refill	20 × 96/refill	
Finntip 300, 5-300 µL, 5.2 cm, Orange			
9401240	Finntip 300	20,000/bulk	F1 (4641040, 4641060, 4641140, 4641070, 4641080, 4641090, 4661010, 4661020, 4661050, 4661060, 4661030, 4661070), F2 (4642040, 4642060, 4642130, 4642070, 4642080, 4662010, 4662050, 4662020, 4662060, 4662030, 4662070), Novus (46200100, 46200300, 46200400, 46200500, 46300200, 46300300, 46300400, 46300500)
9401250	Finntip 300	10 × 96/rack	
9401253	Finntip 300 sterile	10 × 96/rack	
9401255	Finntip 300 refill	20 × 96/refill	
9401260	Finntip 300	1000/bag	
Finntip 1000, 100-1000 µL, 7.1 cm, Blue			
9401030	Finntip 1000	1000/bag	F1 (4641100), F2 (4642090), Novus (46200600)
9401010	Finntip 1000	10,000/bulk	
9401070	Finntip 1000	200/box	
9401110	Finntip 1000	10 × 96/rack	
9401113	Finntip 1000 sterile	10 × 96/rack	
9401115	Finntip 1000 refill	10 × 96/refill	
Finntip 1000 Ext, 100-1000 µL, 10.5 cm, Blue			
9401410	Finntip 1000 Ext	1000/bag	F1 (4641100), F2 (4642090), Novus (46200600)
9401420	Finntip 1000 Ext	5 × 96/rack	
9401423	Finntip 1000 Ext sterile	5 × 96/rack	
Finntip 5 mL, 0.5-5 mL, 14.7 cm, Green			
9402050	Finntip 5 mL	75/box	F1 (4641110), F2 (4642100), Novus (46200700)
9402030	Finntip 5 mL	500/bag	
9402010	Finntip 5 mL	3000/bulk	
9402070	Finntip 5 mL	5 × 54/rack	
9402073	Finntip 5 mL sterile	5 × 54/rack	
Finntip 10 mL, 1-10 mL, 15.0 cm, Red			
9402150	Finntip 10 mL	40/box	F1 (4641120), F2 (4642110), Novus (46200800)
9402151	Finntip 10 mL	100/bag	
9402160	Finntip 10 mL	5 × 24/rack	
9402163	Finntip 10 mL sterile	5 × 24/rack	

Thermo Scientific Finntip Extended Length Pipette Tips

Finntip Extended Length Pipette Tips are designed for use with extremely narrow or deep vessels.

Extended length tips allow you to access the bottom of test tubes, reagent bottles, flasks and other vessels without touching the barrel of your pipetter against the side of the tube.

The longer tip length of these tips allows you to reach the bottom of long or narrow vessels that standard tips cannot reach. The selection also includes an extended 10 mL tip, which is among the longest reaching tips available. The tip is very narrow and has been designed to reach to the bottom of common 1 L laboratory bottles and most volumetric flasks.

Details

- Prevents cross-contamination from vessel walls
- Allows reach to the bottom of particularly long or narrow vessels that standard tips cannot reach
- Versatile packaging options, with sterile and filtered versions available
- Chemical-resistant tips made of high-quality polypropylene
- Available in three volume ranges:1-200 µL, 100-1000 µL and 1-10 mL

Pipetter Compatibility: Finntip pipette tips are optimized for use with Finnpipette pipetters. The universal design enables compatibility also with pipetters from other manufacturers.

Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485 (CE/IVD certified).

Cat. No.	Description	Packaging Type	Compatible Finnpipettes
Finntip 200 Ext, 5-200 µL, 7.8 cm, Orange			
9400100	Finntip 200 Ext	400/box	F1 (4641040, 4641060, 4641140, 4641070, 4641080, 4661010, 4661020, 4661050, 4661060), F2 (4642040, 4642060, 4642130, 4642070, 4642080, 4662010, 4662050, 4662020, 4662060), Novus (46200100, 46200300, 46200400, 46300200, 46300300)
9400130	Finntip 200 Ext	10 × 96/rack	
9400133	Finntip 200 Ext sterile	10 × 96/rack	
Finntip 1000 Ext, 100-1000 µL, 10.5 cm, Blue			
9401410	Finntip 1000 Ext	1000/bag	F1 (4641100), F2 (4642090), Novus (46200600)
9401420	Finntip 1000 Ext	5 × 96/rack	
9401423	Finntip 1000 Ext sterile	5 × 96/rack	
Finntip 10 mL Ext, 1-10 mL, 26.7 cm			
94060970	Finntip Flex 10 mL Ext	100/bag	F1 (4641120), F2 (4642110), Novus (46200800)
94060973	Finntip Flex 10 mL Ext sterile	50/bag	

Thermo Scientific Finntip Wide Orifice Pipette Tips

Finntip Wide Orifice Pipette Tips are ideal for pipetting fragile cell suspensions and marcomolecules including genomic DNA.

The wide orifice tips eliminate mechanical shearing that causes cell fragmentation. Depending on the model, the inside diameter of the orifice is 1.1 mm or 1.8 mm.

Details

- Designed for pipetting maCRomolecule
- Eliminates cell fragmentation caused by mechanical shearing
- Two different models covering a volume range of 10-1000 µL
- Wide orifice tips with orifice inside diameters of 1.1 mm or 1.8 mm

Pipetter Compatibility: Finntip pipette tips are optimized for use with Finnpipette pipetters. The universal design enables compatibility also with pipetters from other manufacturers.

Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485 (CE/IVD certified).

Cat. No.	Description	Packaging Type	Compatible Finnpipettes
Finntip 250 Wide, 10-250 µL, 5.3 cm, White			
9405020	Finntip 250 Wide	1000/bag	F1 (4641040, 4641060, 4641140, 4641070, 4641080, 4661010, 4661020, 4661050,4661060), F2 (4642040, 4642060, 4642130, 4642070, 4642080, 4662010, 4662050, 4662020, 4662060), Novus (46200100, 46200300, 46200400, 46300200, 46300300)
9405120	Finntip 250 Wide	10 × 96/rack	
9405123	Finntip 250 Wide sterile	10 × 96/rack	
Finntip 1000 Wide, 100-1000 µL, 7.2 cm, White			
9405050	Finntip 1000 Wide	400/bag	F1 (4641100), F2 (4642090), Novus (46200600)
9405060	Finntip 1000 Wide	6500/bulk	
9405160	Finntip 1000 Wide	10 × 96/rack	
9405163	Finntip 1000 Wide sterile	10 × 96/rack	

Thermo Scientific Finntip BioCon Pipette Tips

Finntip Biocon Pipette Tips are designed for applications that demand the utmost in biological purity.

Designed for applications that demand the highest levels of biological purity, the individually packed Finntip BioCon tips are guaranteed free of any biological contamination, including DNA, DNase, RNase and endotoxin. They are sterilized with irradiation, making them safe for medical uses (non-invasive), pharmaceutical and food industries, and PCR applications, as well as molecular biology and cell technology. A certificate of quality is provided in each box.

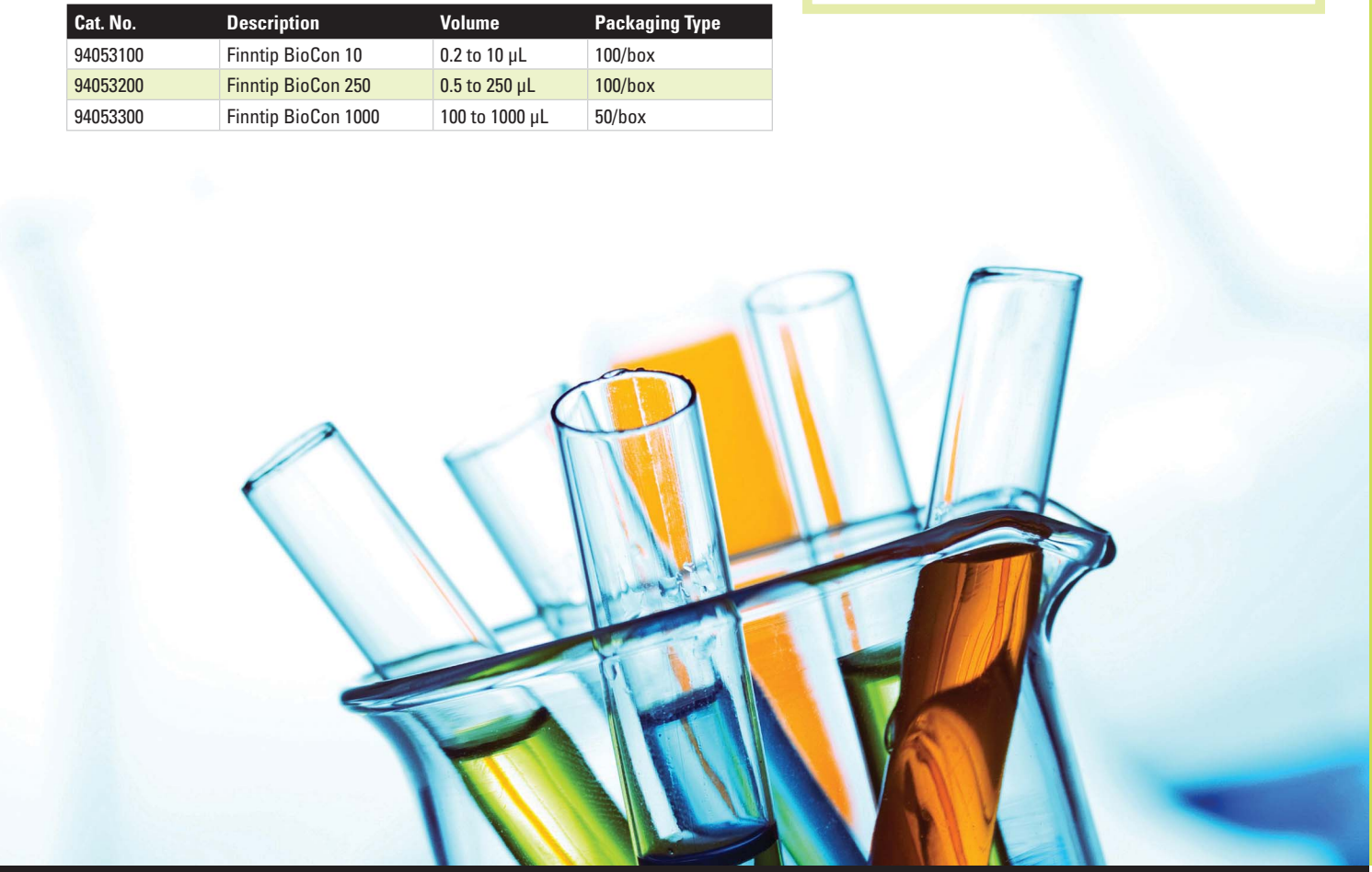
Details

- For applications that demand the highest biological purity
- Individually packed for maximum protection
- Available in three volume ranges: 0.2-10 µL, 0.5-250 µL and 100-1000 µL
- Certified free from DNA, DNase, RNase and endotoxin
- Certificate of quality is provided in each box

Pipetter Compatibility: Finntip pipette tips are optimized for use with Finnpipette pipetters. The universal design enables compatibility also with pipetters from other manufacturers.

Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485 (CE/IVD certified).

Cat. No.	Description	Volume	Packaging Type
94053100	Finntip BioCon 10	0.2 to 10 µL	100/box
94053200	Finntip BioCon 250	0.5 to 250 µL	100/box
94053300	Finntip BioCon 1000	100 to 1000 µL	50/box



Thermo Scientific Finntip Filter Pipette Tips

Finntip Filter Pipette Tips are designed to protect your samples from contamination.

Finntip Filter Pipette Tips provide superior protection against contamination. These sterile tips are produced in a controlled environment, sterilized with irradiation and are certified free from DNA, DNase, RNase and endotoxin. Our filter tips are ideal for a wide range of applications, especially sensitive procedures including PCR based reactions.

Finntip Filter Pipette Tips are available in racks with an assortment of volumes from 0.2 µL to 10 µL. Made from an inert non-sealing polyethylene matrix, the filter is effective at eliminating contamination from the pipetter to the sample, thereby ensuring the integrity of any pipetting function.

Details

- Wide volume range from 0.2 µL to 10 µL
- Filters composed of inert non-sealing polyethylene matrix effectively eliminate carryover contamination from the pipetter to the sample
- Ideal for use in sensitive applications, including PCR
- 10 µL to 1000 µL product versions, certified free from DNA, DNase, RNase and endotoxin
- Supplied as vacuum-sealed sterilized tip racks

Pipetter Compatibility: Finntip pipette tips are optimized for use with Finnpipette pipetters. The universal design enables compatibility also with pipetters from other manufacturers.

Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485 (CE/IVD-certified)

Cat. No.	Description	Volume	Length	Packaging Type
94052000	Finntip Filter Micro 10 µL, sterile	0.2-10 µL	3.2 cm	10 × 96/rack
94052020	Finntip Filter Micro 20 µL, sterile	0.2-20 µL	3.3 cm	10 × 384/rack
94052060	Finntip Filter Micro 50 µL, sterile	0.2-50 µL	4.8 cm	10 × 384/rack
94052100	Finntip Filter 10 µL, sterile	0.5-10 µL	5.2 cm	10 × 96/rack
94052150	Finntip Filter 20 µL, sterile	0.5-20 µL	5.2 cm	10 × 96/rack
94052160	Finntip Filter 30 µL, sterile	0.5-30 µL	5.2 cm	10 × 96/rack
94052200	Finntip Filter 100 µL, sterile	0.5-100 µL	5.2 cm	10 × 96/rack
94052310	Finntip Filter 100 µL Ext, sterile	5-100 µL	7.8 cm	10 × 96/rack
94052300	Finntip Filter 200 µL, sterile	0.5-200 µL	5.2 cm	10 × 96/rack
94052320	Finntip Filter 200 µL Ext, sterile	5-200 µL	7.8 cm	10 × 96/rack
94052350	Finntip Filter 300 µL, sterile	5-300 µL	5.2 cm	10 × 96/rack
94052410	Finntip Filter 1000 µL, sterile	100-1000 µL	7.1 cm	10 × 96/rack
94052430	Finntip Filter 1000 µL Ext, sterile	100-1000 µL	10.5 cm	5 × 96/rack
94052550	Finntip Filter 5 mL, sterile	0.5-5 mL	14.7 cm	5 × 54/rack
94052600	Finntip Filter 10 mL, sterile	1-10 mL	15.0 cm	5 × 24/rack

Thermo Scientific Finntip Flex Pipette Tips

Finntip Flex Pipette Tips offer a consistent seal for higher accuracy and precision.

Finntip Flex Pipette Tips are flexible, soft and sophisticated high-end tips for discerning users. All elements of this pipetting system have been designed to meet the most demanding requirements for ergonomics and flexibility in today's fast-paced laboratories.

Finntip Flex Pipette Tips are available in easy-to-use 10, 200, 300, 1000, 1200 µL and 10 mL sizes. The soft tip reduces the amount of force needed to attach and eject tips, significantly reducing the risk of Repetitive Strain Injury (RSI). It also ensures a better seal with the pipetter for greater accuracy and precision.

Details

- Excellent for single and multichannel pipetting
- Available in six volume ranges: 0.2-10 µL, 1-200 µL, 5-300 µL, 5-1000 µL, 50-1200 µL and 1-10 mL
- Sterile tips are supplied in vacuum sealed, sterilized, 10x96 rack and they are certified to be free from DNA, DNase, RNase and endotoxin
- Save space with refills

Softer Tip

- The soft tip reduces the amount of force needed to attach and eject tips, significantly lowering the risk of Repetitive Strain Injury (RSI)
- Provides a better seal with the pipetter for greater accuracy and precision

Slip-free Rack

- The see-through cover is easy to open with one hand, leaving the other hand free to perform other tasks
- The sturdy base and slip-proof feet keep the rack stationary so you can easily, yet firmly, attach the tip

Pipetter Compatibility: Finntip pipette tips are optimized for use with Finnpipette pipetters. The universal design enables compatibility also with pipettes from other manufacturers.

Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485 (CE/IVD certified)

Cat. No.	Description	Packaging Type	Compatible Finnpipettes
Finntip Flex 10, 0.1-10 µL, 3.3 cm, Pink			
94060120	Finntip Flex 10	1000/bag	F1 (4641010, 4641020, 4641030, 4661000, 4661040), F2 (4642010, 4642020, 4642030, 4662000, 4662040), Novus (46200000, 46300000, 46300100)
94060100	Finntip Flex 10	10 × 96/rack	
94060103	Finntip Flex 10 sterile	10 × 96/rack	
94060116	Finntip Flex 10 refill starter kit	1 × 96/rack + 20 × 96/refill	
94060117	Finntip Flex 10 refill kit	20 × 96/refill	
Finntip Flex 200, 1-200 µL, 6.0 cm, Yellow			
94060320	Finntip Flex 200	1000/bag	F1 (4641040, 4641060, 4641140, 4641070, 4641080, 4661010, 4661020, 4661050, 4661060), F2 (4642040, 4642060, 4642130, 4642070, 4642080, 4662010, 4662050, 4662020, 4662060), Novus (46200100, 46200300, 46200400, 46300200, 46300300)
94060310	Finntip Flex 200	10 × 96/rack	
94060313	Finntip Flex 200 sterile	10 × 96/rack	
94060316	Finntip Flex 200 refill starter kit	1 × 96/rack + 20 × 96/refill	
94060317	Finntip Flex 200 refill	20 × 96/refill	
Finntip Flex 300, 5-300 µL, 6.15 cm, Orange			
94060520	Finntip Flex 300	1000/bag	F1 (4641040, 4641060, 4641140, 4641070, 4641080, 4641090, 4661010, 4661020,4661050, 4661060, 4661030, 4661070), F2 (4642040, 4642060, 4642130, 4642070, 4642080, 4662010, 4662050, 4662020, 4662060, 4662030, 4662070), Novus (46200100, 46200300, 46200400, 46200500, 46300200, 46300300, 46300400, 46300500)
94060510	Finntip Flex 300	10 × 96/rack	
94060513	Finntip Flex 300 sterile	10 × 96/rack	
94060516	Finntip Flex 300 refill starter kit	1 × 96/rack + 20 × 96/refill	
94060517	Finntip Flex 300 refill	20 × 96/refill	
Finntip Flex 1000, 50-1000 µL, 8.7 cm, Blue			
94060720	Finntip Flex 1000	1000/bag	F1 (4641100), F2 (4642090), Novus (46200600)
94060710	Finntip Flex 1000	10 × 96/rack	
94060713	Finntip Flex 1000 sterile	10 × 96/rack	
94060716	Finntip Flex 1000 refill starter kit	1 × 96/rack + 16 × 96/refill	
94060717	Finntip Flex 1000 refill	16 × 96/refill	
Finntip Flex 1200, 50-1200 µL, 8.7 cm, Turquoise			
94060820	Finntip Flex 1200	1000/bag	F1 (4641100), F2 (4642090), Novus (46200600, 46300800)
94060810	Finntip Flex 1200	10 × 96/rack	
94060813	Finntip Flex 1200 sterile	10 × 96/rack	
94060816	Finntip Flex 1200 refill starter kit	1 × 96/rack + 16 × 96/refill	
94060817	Finntip Flex 1200 refill	16 × 96/refill	
Finntip Flex 10 mL Ext, 1-10 mL, 26.7 cm			
94060970	Finntip Flex 10 mL Ext	100/bag	F1 (4641120), F2 (4642110), Novus (46200800)
94060973	Finntip Flex 10 mL Ext sterile	50/bag	

Thermo Scientific Finntip Flex Filter Pipette Tips

Finntip Flex Filter Pipette Tips provide effective protection against contamination.

The Finntip Flex Filter Pipette Tips combine the ergonomics of a standard Finntip Flex pipette tip and the protection provided by a filtered tip. With the soft Flex tips, the amount of force needed to attach and eject tips is significantly reduced for enhanced pipetting ergonomics.

Finntip Flex Filter Pipette Tips effectively minimize the risk of passing contamination from the pipetter to the sample. Including a range of products certified free from DNA, DNase, RNase and endotoxin, these sterile tips suit all sensitive procedures, including PCR-based reactions where contamination is a concern. The filters are composed of an inert non-sealing polyethylene matrix and are effective at eliminating carryover contamination.

Details

- The soft tip reduces the amount of force needed to attach and eject tips, significantly lowering the risk of Repetitive Strain Injury (RSI)
- Filters made of inert non-sealing polyethylene matrix, effectively eliminate carryover contamination from the pipetter to the sample
- Ideal for use in sensitive applications, including PCR
- 10 µL to 1200 µL product versions certified-free from DNA, DNase, RNase and endotoxin
- Supplied as vacuum-sealed sterilized tip racks

Pipetter Compatibility: Finntip pipette tips are optimized for use with Finnpipette pipetters. The universal design enables compatibility also with pipetters from other manufacturers.

Certifications: Manufactured according to ISO 9001, ISO 14001 and ISO 13485 (CE/IVD certified).

Cat. No.	Description	Volume	Length	Packaging Type
94056980	Finntip Flex Filter 10 µL, sterile	0.2-10 µL	3.3 cm	10 × 96/rack
94056510	Finntip Flex Filter 30 µL, sterile	1-30 µL	6.0 cm	10 × 96/rack
94056520	Finntip Flex Filter 100 µL, sterile	1-100 µL	6.0 cm	10 × 96/rack
94056380	Finntip Flex Filter 200 µL, sterile	1-200 µL	6.0 cm	10 × 96/rack
94056580	Finntip Flex Filter 300 µL, sterile	5-300 µL	6.15 cm	10 × 96/rack
94056710	Finntip Flex Filter 1000 µL, sterile	100-1000 µL	8.7 cm	10 × 96/rack
94056810	Finntip Flex Filter 1200 µL, sterile	50-1200 µL	8.7 cm	10 × 96/rack
94056970	Finntip Flex Filter 10 mL Ext, sterile	1-10 mL	26.7 cm	50/bag

Thermo Scientific Finntip Stepper Tips

Finntip Stepper Tips are the perfect fit with Thermo Scientific Finnpipette Stepper Pipetters.

The Finntip Stepper Tips are plunger-style tips for positive displacement pipetting. Seven sizes are available in sterile and non-sterile versions.

Details

- Plunger-style tips
- Overall dispensing range of 10 to 5000 µL
- Nonsterile tips are bulk packaged; sterile tips are individually wrapped

Certifications: ISO 9001 and ISO 14001

Volume Setting Chart for Finntip Stepper Tips					
Wheel Position	1	2	3	4	5
Maximum No. of Deliveries	44	22	15	11	9
Volume/Delivery with					
0.5 mL Tip	10 µL	20 µL	30 µL	40 µL	50 µL
1.25 mL Tip	25 µL	50 µL	75 µL	100 µL	125 µL
2.5 mL Tip	50 µL	100 µL	150 µL	200 µL	250 µL
5.0 mL Tip	100 µL	200 µL	300 µL	400 µL	500 µL
12.5 mL Tip	250 µL	500 µL	750 µL	1000 µL	1250 µL
25 mL Tip	500 µL	1000 µL	1500 µL	2000 µL	2500 µL
50 mL Tip	1000 µL	2000 µL	3000 µL	4000 µL	5000 µL

Cat. No.	Description	Packaging Type
Finntip Stepper 0.5 mL, dispensing volume: 10, 20, 30, 40, 50 µL		
9404170	Finntip Stepper, 0.5 mL	100/box
9404173	Finntip Stepper, 0.5 mL, sterile	50/box
Finntip Stepper 1.25 mL, dispensing volume: 25, 50, 75, 100, 125 µL		
9404180	Finntip Stepper, 1.25 mL	100/box
9404183	Finntip Stepper, 1.25 mL, sterile	50/box
Finntip Stepper 2.5 mL, dispensing volume: 50, 100, 150, 200, 250 µL		
9404190	Finntip Stepper, 2.25 mL	100/box
9404193	Finntip Stepper, 2.25 mL, sterile	50/box
Finntip Stepper 5.0 mL, dispensing volume: 100, 200, 300, 400, 500 µL		
9404200	Finntip Stepper, 5.0 mL	50/box
9404203	Finntip Stepper, 5.0 mL, sterile	25/box
Finntip Stepper 12.5 mL, dispensing volume: 250, 500, 750, 1000, 1250 µL		
9404210	Finntip Stepper, 12.5 mL	50/box
9404213	Finntip Stepper, 12.5 mL, sterile	25/box
Finntip Stepper 25 mL, dispensing volume: 500, 1000, 1500, 2000, 2500 µL		
9404220	Finntip Stepper, 25 mL	20/box
9404223	Finntip Stepper, 25 mL, sterile	10/box
Finntip Stepper 50 mL, dispensing volume: 1000, 2000, 3000, 4000, 5000 µL		
9404230	Finntip Stepper, 50 mL	10/box
9404233	Finntip Stepper, 50 mL, sterile	10/box

Thermo Scientific Finntip Multistepper Pipette Tips

Finntip Multistepper Pipette Tips optimize the performance of Thermo Scientific Finnpipette Multistepper Pipetters.

Specifically designed for use with the Thermo Scientific Finnpipette Multistepper Pipetter, this tip has a nominal volume of 1500 µL and accommodates standard 9 mm microplate spacing. Finntip Multistepper Tips are available in racks of 96 tips, in both sterile and non-sterile versions.

Details

- For use with Thermo Scientific Finnpipette Multistepper Pipetter
- Length: 8.8 cm
- Volume: 1500 µL

Certifications: ISO 9001 and ISO 14001

Cat. No.	Description	Packaging Type
Finntip Multistepper, 1500 µL, 8.5 cm, Turquoise		
9401300	Finntip Multistepper	400/box
9401330	Finntip Multistepper	10 × 96/rack
9401333	Finntip Multistepper, sterile	10 × 96/rack

Thermo Scientific Matrix Single-Channel Electronic Pipetters

Matrix* Single-Channel Electronic Pipetters combine intuitive step-based programming with superior ergonomic design to provide power and flexibility for enhanced pipetting.

Step-based programming allows you to perform pipetting routines that would either be cumbersome or virtually impossible with manual pipetters. What used to take many motions of the thumb and manual adjustment of a volume knob can now be accomplished with the light touch of a button.

This ergonomically-designed pipetter performs all the tasks you might do with a manual pipetter – only faster and with less effort. Step-based programming makes it logical, intuitive and easy to create programs, while onboard memory saves five programs with up to 40 steps each.

Details

- **Step-based programming** enables logical, intuitive and easy to create programs
- **Onboard memory** saves five programs (up to 40 steps each), allowing you to spend more time pipetting and less time programming
- **Individual speed control:** five variable speeds are available for each step of your procedure (aspirate, dispense or mix)
- **Trigger-based operation** and tip ejection eliminate use of the thumb and reduces strain when ejecting tips
- **Five volume ranges** are available, increasing the flexibility to perform everything from micro to large volume pipetting
- **Operates while plugged in,** so there is no downtime during recharging
- **Light tip application and ejection:** Designed in conjunction with Matrix pipette tips for superior fit with minimal application/ejection forces

Includes: AC power supply, warranty card, instruction manual and calibration report

Warranty: One year

Cat. No.	Volume	Accuracy*	Precision**	Color Code
1029	0.5-12.5 µL	±1.0% or 0.05 µL	0.4% or 0.05 µL	Red
1020	1.0-30 µL	±1.0% or 0.15 µL	0.3% or 0.05 µL	Purple
1021	2-125 µL	±0.6% or 0.3 µL	0.2% or 0.1 µL	Yellow
1022	5-250 µL	±0.6 or 0.5 µL	0.15% or 0.15 µL	Blue
1024	15-1250 µL	±0.5% or 3.0 µL	0.13% or 0.6 µL	Green
Thermo Scientific Matrix Single Channel Short Barrel Pipetter				
1122	5-250 µL	±0.6% or 0.5 µL	0.15% or 0.15 µL	Blue
1124	15-1250 µL	±0.5% or 3.0 µL	0.13% or 0.6 µL	Green

Note: For Accuracy and Precision, values shown are expressed as a percent (%) deviation or microliter (µL) value. When applied to desired volume, the greater of the two values will always apply.
**Both values represent the deviation from the mean.*
***Percentage values are expressed as the coefficient of variation.*
Microliter values are expressed as the standard deviation.

Thermo Scientific Matrix Multichannel Electronic Pipetters

Matrix Multichannel Electronic Pipetters deliver the power of electronic pipetting in microplate formats.

In addition to a well-balanced, ergonomic design, these pipetters feature step-based programming that allows you to perform pipetting routines that would be cumbersome or virtually impossible with manual pipetters. What once took many thumb motions and manual volume adjustments can now be accomplished with the light touch of a button. Available in 8-, 12-, or 16-channel models for performing a range of operations – from microvolume pipetting in a PCR plate to filling microplates.

Details

- **Step-based programming** for logical, intuitive, and easy to create programs
- **Onboard memory** saves five programs (up to 40 steps each), allowing you to spend more time pipetting and less time programming
- **Individual speed control:** Five variable speeds are available for each step of your procedure (aspirate, dispense or mix)
- **Large volume capacity** of 1250 µL per tip allows you to fill an entire microplate with up to 100 µL per well from a single aspiration
- **Lithium-ion battery technology** allows more time working, less time charging; no memory effect

Design

- **Trigger-based operation and tip ejection** eliminates use of the thumb
- **Unique design** keeps your hand close to the pipetting surface; tip ejector utilizes two or three fingers, not the thumb
- **Light tip application and ejection:** Designed in conjunction with Matrix pipette tips for superior fit requiring minimal application/ejection forces

Step-Based Programming

- Easy-to-use feature allows you to automate anything you would do with a manual multichannel pipette
- All functions (aspirate, dispense, mix) can be linked together (up to 40 steps) and saved for future use; up to five programs can be stored in memory
- Example: Aspirate 1200 µL, dispense 50 µL to the first two rows, then 100 µL to the next ten rows while setting specific dispense speeds for each step
- Alternatively, aspirate 20 µL and then 200 µL of diluent, then repeat per each row of a plate for an in-plate serial dilution
- "Scratch Pad" programming mode allows fast and simple program changes that are not stored in memory
- Paced-dispense function dispenses the programmed volume at the specified pace (fast or slow) automatically

Includes: Universal power supply, warranty card,instruction manual and calibration report

Warranty: One year

Thermo Scientific Matrix Multichannel Electronic Pipetters, continued

Cat. No.	Volume	Channels	Accuracy*	Precision**	Color Code
2009	0.5-12.5 µL	8	±2.5% or 0.15 µL	2.0% or 0.15 µL	Red
2001	2-125 µL	8	±2.0% or 1.0 µL	1.0%or 0.60 µL	Yellow
2002	5-250 µL	8	±2.0% or 1.5 µL	0.7% or 1.0 µL	Blue
2004	15-1250 µL	8	±1.5% or 6.0 µL	0.6% or 3.0 µL	Green
2019	0.5-12.5 µL	12	±2.5% or 0.15 µL	2.0% or 0.15 µL	Red
2011	2-125 µL	12	±2.0% or 1.0 µL	1.0% or 0.60 µL	Yellow
2012	5-250 µL	12	±2.0% or 1.5 µL	0.7% or 1.00 µL	Blue
2014	15-850 µL	12	±1.5% or 4.0 µL	0.6% or 2.50 µL	Orange
2069	0.5-12.5 µL	16	±2.5% or 0.15 µL	2.0% or 0.15 µL	Red
2060	1.0-30 µL	16	±2.0% or 0.30 µL	1.7% or 0.25 µL	Purple
2061	2-125 µL	16	±2.0% or 1.0 µL	1.0% or 0.60 µL	Yellow

Note: For accuracy and precision, values shown are expressed as a percent (%) deviation or microliter (µL) value. When applied to desired volume, the greater of the two values will always apply.
**Both values represent the deviation from the mean.*
***Percentage values are expressed as the coefficient of variation. Microliter values are expressed as the standard deviation.*

Thermo Scientific Matrix EXP Electronic Pipetters

Matrix EXP Electronic Pipetters rapidly increase the throughput of sample transfers from tube racks to microplates.

Our innovative expandable tip spacing system increases productivity with ease. Simply pull the rod to expand the tips for accessing test tube or microcentrifuge tube racks, 24 or 48 well plates – and then push the rod to compress the spacing for pipetting into 96 well microplates. This allows you to transfer up to eight samples at once, and saves many arm/thumb motions when compared to performing this routine with single-channel pipetters.

Easy to use, step-based programming allows you to automate anything you would do with a manual multichannel pipetter.

Details

- **Step-based programming** for logical, intuitive, and easy to create programs
- **Onboard memory** saves five programs (up to 40 steps each), allowing you to spend more time pipetting and less time programming
- **Individual speed control:** Five variable speeds are available for each step of your procedure (aspirate, dispense, or mix)
- **Trigger-based operation and tip ejection** eliminates use of the thumb and reduces strain when ejecting tips
- **Unique design** keeps your hand close to the pipetting surface; tip ejector utilizes two or three fingers, not the thumb
- **Large volume capacity** of 1250 µL per tip allows you to fill an entire microplate with up to 100 µL per well from a single aspiration
- **Lithium-ion battery** technology allows more time working, less time charging; no memory effect
- **Operates while plugged in,** so there is no downtime during recharging

ExpandableTip Spacing

- Expandable tip spacing allows you to transfer multiple samples between different tube rack and microplate configurations
- The pipette tips can be expanded to access test tube racks, 24-well plates, or 48-well plates – or closed to work with 96-well plates
- Also operates as a standard pipetter for 24- or 48-well plates

Includes: Universal power supply, warranty card, instruction manual and calibration report

Warranty: One year

Cat. No.	Volume	Channels	Accuracy*	Precision**	Color Code	Spacing (mm)	Microplate format	Tube format
2621	2-125 µL	6	±2.0% or 1.0 µL	1.0% or 0.6 µL	Yellow	9.00-19.81	96/24-well	16 mm
2622	5-250 µL	6	±2.0% or 1.5 µL	0.7% or 1.0 µL	Blue	9.00-19.81	96/24	16 mm
2624	15-1250 µL	6	±1.5% or 6.0 µL	0.6% or 3.0 µL	Green	9.00-19.81	96/24-well	16 mm
2029	0.5-12.5 µL	8	±2.5% or 0.15 µL	2.0% or 0.15 µL	Red	9.00-13.06	96-well	microcentrifuge
2021	2-125 µL	8	±2.0% or 1.0 µL	1.0% or 0.6 µL	Yellow	9.00-14.15	96/48-well	12 or 13 mm
2022	5-250 µL	8	±2.0% or 1.5 µL	0.7% or 1.0 µL	Blue	9.00-14.15	96/48-well	12 or 13 mm
2024	15-1250 µL	8	±1.5% or 6.0 µL	0.6% or 3.0 µL	Green	9.00-14.15	96/48-well	12 or 13 mm
2229	0.5-12.5 µL	12	±2.5% or 0.15 µL	2.0% or 0.15 µL	Red	6.00-9.00	96-well	Terasaki, gels, 864s

Note: For Accuracy and Precision, values shown are expressed as a percent (%) deviation or microliter (µL) value. When applied to desired volume, the greater of the two values will always apply.
**Both values represent the deviation from the mean. **Percentage values are expressed as the coefficient of variation. Microliter values are expressed as the standard deviation.*

Thermo Scientific Matrix Equalizer Electronic Multichannel Pipetters

Matrix Equalizer Electronic Multichannel Pipetters speed sample transfer between labware with different configurations.

The Matrix Electronic Pipette with equalizer tip spacing increases productivity while reducing the risk of Repetitive Strain Injury (RSI). The tip spacing mechanism expands and contracts with a simple slide adjustment to perform sample transfers between virtually any tube, rack, microplate or horizontal gel box.

Details

- Flexibility to **pipette between many types of labware** with five volume and three tip spacing ranges
- **Step-based programming** makes it logical, intuitive and easy to create programs
- Onboard memory saves five programs (up to 40 steps each), allowing you to spend more time pipetting and less time programming
- Choice of five speeds independently controls aspiration, dispense and mix steps
- Ergonomic design with **trigger-based operation** and tip ejection increases comfort and reduces the risk of repetitive stress injuries
- **Lithium-ion battery** technology allows more time working, less time charging; no memory effect
- Five volume ranges and three spacing ranges allow the flexibility to pipette across many types of labware
- Designed in conjunction with Matrix pipette tips, for superior tip fit with minimal application and ejection forces

Adjustable Equal Tip Spacing

- Tips can be spaced anywhere from 9 mm (96-well microplates) to 14.15 mm (12-13 mm tube rack spacing or 48-well plates) in increments of 0.1 mm
- Distance between tips is always equal – simply set the desired spacing, then pull or push the rod to expand or contract the tips
- Spacing can be set while tips are empty or full, enabling quick transfer of multiple samples at once between labware with different configurations
- Matrix Equalizer 384 models (0.5-12.5, 1-30 and 2-125 µL) feature the same unique tip spacing mechanism but allow you to set the tip spacing down to 4.5 mm – perfect for multichannel dispensing from 96-well into 384-well plates or for multi-lane sample loading of agarose gels. The 8-channel pipetter expands to 14.15 mm; the 12-channel to 9 mm

Applications:

- Plate-to-plate transfers between 96- and 384-well microplates
- Multichannel sample transfers between tube racks and microplates
- Multichannel gel loading directly from microplates or tube racks
- Sample additions
- Serial dilutions

Includes: Universal power supply, warranty card, instruction manual and calibration report

Warranty: One year

Cat. No.	Model	Range	Channels	Accuracy*	Precision**	Color Code	Spacing (mm)	Microplate format
2032	Equalizer	5-250 µL	8	±2.0% or 1.5 µL	0.7% or 1.0 µL	Blue	9.0-14.2	96/48-well
2034	Equalizer	15-1250 µL	8	±1.5% or 6.0 µL	0.6% or 3.0 µL	Green	9.0-14.2	96/48-well
2139	Equalizer 384	0.5-12.5 µL	8	±2.5% or 0.15 µL	2.0% or .15 µL	Red	4.5-14.2	384/96/48-well
2130	Equalizer 384	1.0-30 µL	8	±2.0% or 0.30 µL	1.7% or 0.25 µL	Purple	4.5-14.2	384/96/48-well
2131	Equalizer 384	2-125 µL	8	±2.0% or 1.0 µL	1.0% or 0.6 µL	Yellow	4.5-14.2	384/96/48-well
2239	Equalizer 384	0.5-12.5 µL	12	±2.5% or 0.15 µL	2.0% or .15 µL	Red	4.5-9.0	384/96-well
2230	Equalizer 384	1.0-30 µL	12	±2.0% or 0.30 µL	1.7% or 0.25 µL	Purple	4.5-9.0	384/96-well
2231	Equalizer 384	2-125 µL	12	±2.0% or 1.0 µL	1.0% or 0.60 µL	Yellow	4.5-9.0	384/96-well

Note: For accuracy and precision, values shown are expressed as a percent (%) deviation or microliter (µL) value. When applied to desired volume, the greater of the two values will always apply.
**Both values represent the deviation from the mean.*
***Percentage values are expressed as the coefficient of variation.*
Microliter values are expressed as the standard deviation.

NEW

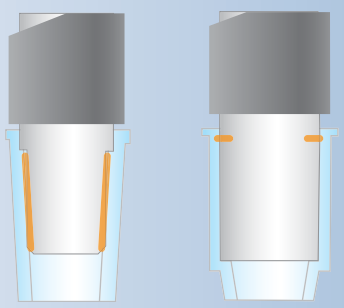
F1-ClipTip Pipetting System

You'll feel the difference the first time you hold the NEW Thermo Scientific F1-ClipTip Pipetting System.

Achieve newfound confidence knowing that once attached, your tips are locked firmly in place, enabling consistent, reproducible pipetting for higher quality results. Your tips will not loosen or fall off regardless of application pressure. Transform your daily pipetting with an airtight seal on every channel for security you can feel.

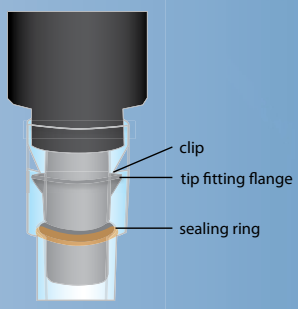
breakthrough ClipTip technology

FRICTION SEALING SYSTEMS



- Increased tip attachment and ejection forces
- Loose tips which can drop off or leak air
- Decreased confidence in reproducibility of results
- Increased Tip Cone Wear

CLIPTIP SYSTEM



- Extremely low tip attachment & ejection forces
- Complete seal on every channel
- No loose tips
- Reproducibility you can count on

See it in action! www.thermoscientific.com/cliptip


Depend on
the full range
of superior
Thermo Scientific
solutions...
Worry-free pipetting is finally here.
With the only tip that clips.

Thermo Scientific Matrix Serological Pipet Filler

The Matrix Serological Pipet Filler is a lightweight, cordless pipet filler that allows longer, fatigue-free pipetting.

The Matrix Serological Pipet Filler is an intuitive, lightweight, cordless pipet filler for use with glass or plastic serological pipets. Easy and comfortable to operate, it features a heavy-duty rechargeable lithium-ion battery that is guaranteed for life and allows the pipet filler to operate approximately three to four times longer between charges than typical units using nickel cadmium batteries. Available in a choice of five colors, the Matrix Serological Pipet Filler can be wall mounted or placed in its table stand. It includes a 1 mL pipet support to eliminate "wobble" when using 1 mL pipets.

Details

- Large backlit LCD display provides visual confirmation of remaining battery charge and speed settings
- Separate aspirate and dispense speed controls provide precise control over pipetting speeds and reduce risk of overpipetting with smaller pipets
- Rechargeable lithium-ion battery comes with lifetime guarantee, and offers long runtime per charge while eliminating battery memory problems
- Battery has rapid charge rate of 80% in one hour and delivers up to 20 hours of continuous operation before recharge
- Nosepiece can accommodate pipets from 1 to 100 mL; included 1 mL pipet stabilizer prevents 1 mL pipets from wobbling or coming loose from nose piece
- Comes with weighted table stand and a convenient wall-mountable holder

Separate Aspirate and Dispense Speed Controls

- Buttons on the rear of the instrument allow the individual setting of aspiration (upper button) and dispense (lower button) speeds
- Eight speeds are available for each function: Simply push for faster or slower
- Selection displayed on the LCD screen
- A zero speed selection on dispense enables gravity dispensing, and extra slow aspiration speeds prevent overpipetting when using 1 mL pipets

Includes: Matrix Serological Pipet Filler, universal charger, table stand, wall-mounted holder, 1 mL pipet support, instruction manual and warranty card

Warranty: One year

Specifications	
Aspirate Speeds	8
Dispense Speeds	8 (+ Gravity Dispense)
Battery	Lithium-ion
Approx. Runtime Between Charges	15 Continous Hours
Recharge Time	3 hrs.
Weight	220 g
Nosepiece Pipet Holder	Autoclavable Silicone Rubber
Pipette Compatibility	All major brands of glass or plastic serological pipettes, 1 to 100 mL
Filter Assembly	0.45 µ Standard

Cat. No.	Color
9531	Matrix Serological Pipet Filler, Red
9541	Matrix Serological Pipet Filler, Green
9501	Matrix Serological Pipet Filler, White
9511	Matrix Serological Pipet Filler, Clear
9521	Matrix Serological Pipet Filler, Blue

Thermo Scientific Matrix Pipetter Accessories

Matrix Pipetter Accessories are optimized for use with Matrix Electronic Pipetters and Matrix Serological Pipet Fillers.

Pipetter Stands for Matrix Electronic Pipetters

- **Single stand:** Free-standing metal unit holds one Matrix electronic single or multichannel pipetter
- **Three-position wall rack:** For Matrix electronic single or multichannel pipetters; includes mounting hardware
- **Six-position revolving stand:** Ideal for labs using multiple pipetters; rotates freely to keep your bench top organized

Tube Racks

- Helps you take full advantage of the expandable tip system on a Matrix EXP or Equalizer electronic pipetters
- Two different tube racks are available for simple reformatting from tubes to microplates
- Test tube racks work with either 12 × 75 mm or 13 × 100 mm test tubes in an 8 × 12 or 5 × 12 format
- Microcentrifuge tube rack works with either 0.5 mL or 1.5 mL tubes

Matrix Serological Pipet Filler Accessories

- **The wall-mounted holder and table stand** offer compact storage between applications. It is possible to recharge the pipet filler in both stands by plugging in the charger. The wall-mounted holder is excellent for storing pipet filler when working in laminar flow cabinets to save space. The wing stand** allows setting the Matrix Serological Pipet Filler down without removing or emptying the serological pipet.
- **The easy-to-change filter** prevents aerosol or liquid cross contamination of the pipet together with an autoclavable silicone adapter. The 1 mL Pipet Support ensures that 1 mL pipets will hold as securely as larger sizes.

Single Pipet Filler Wall-mounted Holder

1 mL Pipet Support

Matrix Single Pipette Stand

Cat. No.	Description	Qty.
Pipetter Stands for Matrix Electronic Pipetters		
1063	Wall Mountable Matrix Pipette Stand, 3-position	1
1066	Revolving Carousel Matrix Pipette Stand, 6-position	1
8066	Matrix Single Pipette Stand	1
Tube Racks		
8813	Sample Transfer Tube Rack, Autoclavable, 12 × 75 mm and 13 × 100 mm tubes, 8 × 12	1
8814	Sample Transfer Tube Rack, Autoclavable, 0.5 mL or 1.5 mL Microcentrifuge Tubes, 8 × 12	1
Matrix Serological Pipet Filler Accessories		
9066	Single Pipet Filler Wall-mounted Holder	1
9067	Single Pipet Table Stand	1
9069	Wing Stand for Serological Pipet Filler**	1
9057	Hydrophobic Filters, 0.45 µm	25/case
9064	Nosepiece (holder, gripper, filter)	1
9065	Silicone Pipet Gripper	4/case
9070	1 mL Pipet Support	1

*** Not available for use or sale within the United States or for importation into the United States.*

Thermo Scientific Nunc Serological Pipets

Nunc* Serological Pipets are accurate, disposable plastic pipets calibrated to deliver to the tip.

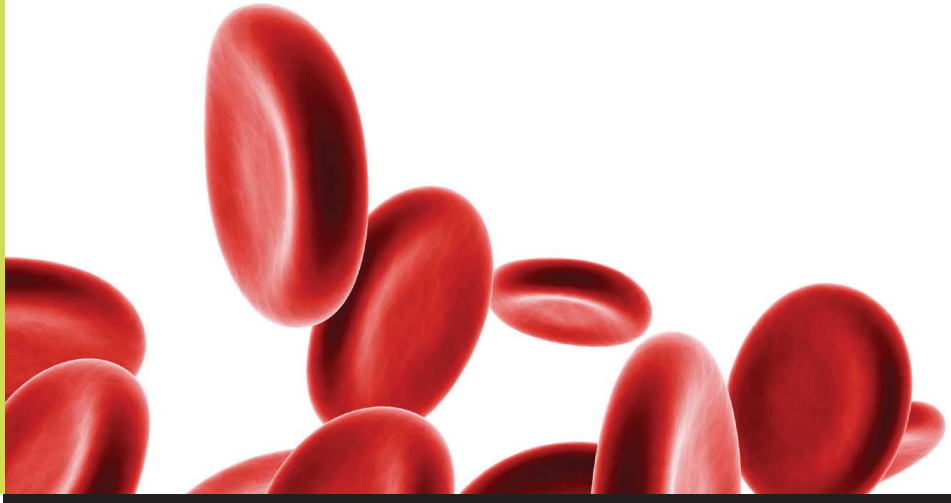
Sterilized and plugged for convenience, these pipets are an excellent choice for cell culture applications and have a certified Sterility Assurance Level (SAL) of 10^{-6}.

Details

- Volumes are color-coded for quick size identification, and packaging is color-coded for ease in sorting and selecting the correct size
- Includes "reverse" and "negative" graduations in easy-to-read black printed scale
- Convenient extra graduations to full pipet volume
- Top ends are beveled with cotton plugging
- Nontoxic, certified nonpyrogenic – suitable for cell culture work
- Bold clear graduations with easy-to-read scale markings
- Individually wrapped in convenient peel-open paper bags
- Printed with black scale
- Polystyrene
- Sterile

Ordering Information: Supplied sterile, individually packaged in easy-open paper/plastic wrapper. Overpacked in convenient dispensing shelf pack.

Cat. No.	Capacity	Graduation	Neg. Grad.	Tolerance	Color Code	Qty./Bag
159609	1	0.01	0.3	±0.02	Black	200
159617	2	0.01	0.3	±0.04	Black	125
159625	5	0.1	2	±0.10	Blue	50
159633	10	0.1	3	±0.20	Orange	50
159641	25	0.2	10	±0.50	Green	50
159668	50	0.5	10	±0.75	Purple	25



Thermo Scientific Matrix Pipette Tip Compatibility Chart

		Electronic Single Channel					Electronic Multichannel (6-, 8- and 12-Channel) Fixed, Equalizer, EXP					Electronic Multichannel 16-Channel and 384-Equalizer			Hybrid Single Channel					Hybrid Multichannel 8-Channel and 12-Channel		
	Vol. (µL)	12.5	30	125	250	1250	12.5	125	250	850	1250	12.5	30	125	12.5	30	125	300	1250	12.5	30	300
Matrix Pipette Tips	**Cat. No.**	1029	1020	1021	1022 1122	1024 1124	2019 2009 2029 2229	2001 2011 2021 2621	2002 2012 2022 2032 2622	2014	2004 2024 2034 2624	2069 2139 2239	2130 2230 2060	2131 2231 2061	1081	1082	1083	1084	1085	2310 2320	2312 2322	2315 2325
30 µL TallTip	7600, 7631, 7632	•	•				•															
12.5 µL Filter TallTip	7635	•	•				•															
250 µL Tip	7250, 7151, 7152, 7156			•	•			•	•													
200 µL Filter Tip	7275			•	•			•	•													
30 µL Filter Tip	7155		A																			
250 µL TallTip	7280, 7281, 7282			•	•			•	•													
200 µL Filter TallTip	7285			•	•			•	•													
300 µL Tip	7320, 7321, 7322			•	•			•	•													
250 µL Filter Tip	7325			•	•			•	•													
300 µL TallTip	7080, 7081, 7082			•	•			•	•													
250 µL Filter TallTip	7085			•	•																	
1250 µL Tip	8050, 8041, 8042, 8046					•				•	•											
1250 µL Filter Tip	8045					•				•	•											
1250 µL TallTip	8250, 8241, 8242, 8246					•				•	•											
1250 µL Filter TallTip	8245					•				•	•											
12.5 µL 384 Tip	7421, 7422											•										
12.5 µL 384 Filter Tip	7425											•										
30 µL 384 Tip	7431, 7432												•									
30 µL 384 Filter Tip	7435												•									
125 µL 384 Tip	7441, 7442													•								
125 µL 384 Filter Tip	7445													•								
12.5 µL/30 µL Matrix Hybrid ClipTip	7120, 7121, 7122														•	•				•	•	
12.5 µL Filter Matrix Hybrid ClipTip	7165														•					•		
30 µL Filter Matrix Hybrid ClipTip	7175															•					•	
125 µL/300 µL Matrix Hybrid ClipTip	7130, 7131, 7132																•	•				•
125 µL/300 µL Filter Matrix Hybrid ClipTip	7135																•	•				•
1250 µL Matrix Hybrid ClipTip	7140, 7141, 7142																		•			
1250 µL Filter Matrix Hybrid ClipTip	7145																		•			

A = Requires special tip ejector (included with pipetter)

Thermo Scientific Matrix Pipette Tips

Matrix Pipette Tips offer a comprehensive selection of tips supplied in innovative Flo-Thru racks.

Matrix pipetters and pipette tips have been designed together to ensure that a perfect balance exists between the security of the seal and ease of application/ejection. Manufactured under tight QC specifications, these standard tips rival special low-retention tips and are capable of pipetting fluids, such as dH_2O, 50% glycerol, hybridized buffer and 0.1% SDS.

Details

- Sealing rings on tips ensure confident, leak-free seal without banging tips on the pipetter
- These tips also offer a secure seal on most other pipetters brands available, due to the compression qualities of the sealing rings
- Highly polished molds and rigorous maintenance procedures enable low liquid retention tips without special treatments or additives

Innovative Racks and Packaging

- Rigid rack design ensures solid, even tip seating; rack will not flex or bend when applying tips
- Unique Flo-Thru rack individually supports tips to prevent them from wobbling when trying to seat them on the pipetter
- Hinge prevents sterile lid from coming into contact with the lab bench
- Venting along the edge or around each tip improves heat flow during autoclaving, and reduces condensation that can form on the tips
- Dual-position lid can be propped open to prevent vacuum deformation during autoclaving
- Racks are constructed of clean recycled materials and are made as small as possible to reduce waste
- Available in various packaging formats, including the environmentally friendly ECOTIPS refill systems

Pipetter compatability: Fits Thermo Scientific Matrix Electronic Pipetters

Cat. No.	Description	Packaging Type
10 µL Matrix Pipette Tips, 0.2-10 µL, 3.1 cm		
7610	10 µL Tip	1000/bag
7611	10 µL Tip	10 × 96/rack
7612	10 µL Tip, sterile	10 × 96/rack
12.5 µL Matrix Pipette Tips, 0.5-12.5 µL, 4.1 cm		
7421	12.5 µL 384 Tip	10 × 384/rack
7422	12.5 µL 384 Tip, sterile	10 × 384/rack
20 µL Matrix Pipette Tips, 0.5-20 µL, 4.6 cm		
7620	20 µL Tip	1000 tips/bag
7621	20 µL Tip	10 × 96/rack
30 µL Matrix Pipette Tips, 1-30 µL, 4.8 cm		
7431	30 µL 384 Tip	10 × 384/rack
7432	30 µL 384 Tip, sterile	10 × 384/rack
125 µL Matrix Pipette Tips, 2-125 µL, 5.4 cm		
7441	125 µL 384 Tip	10 × 384/rack
7442	125 µL 384 Tip, sterile	10 × 384/rack
250 µL Matrix Pipette Tips, 2-250 µL, 4.9 cm		
7250	250 µL Tip	1000 tips/bag
7151	250 µL Tip	10 × 96/rack
7152	250 µL Tip, sterile	10 × 96/rack
7156	250 µL ECOTIPS	10 × 96/refill
300 µL Matrix Pipette Tips, 2-300 µL, 5.8 cm		
7320	300 µL Tip	1000 tips/bag
7321	300 µL Tip	10 × 96/rack
7322	300 µL Tip, sterile	10 × 96/rack
1250 µL Matrix Pipette Tips, 15-1250 µL, 7.9 cm		
8050	1250 µL Tip	500 tips/bag
8041	1250 µL Tip	10 × 96/rack
8042	1250 µL Tip, sterile	10 × 96/rack
8046	1250 µL ECOTIPS	10 × 96/refill

Thermo Scientific Matrix TallTip Extended Length Pipette Tips

Matrix TallTip Pipette Tips provide extended length and a narrow shaft for maximum reach.

Access the bottom of test tubes, reagent bottles, flasks and other vessels without touching the barrel of your pipetter against the side of the tube.

The longer length of Matrix TallTip Extended Length tips allows you to reach the bottom of long or narrow vessels that standard tips cannot reach. Non-beveled, narrow tip ends provide cleaner touch-off of sidewalls for greater precision.

Details

- Prevents cross-contamination from vessel walls
- Enables the use of large volume tips in small spaces, resulting in less liquid displacement
- Non-beveled, narrow tip ends provide cleaner touch-off of sidewalls for greater precision
- Allows you to reach the bottom of particularly long or narrow vessels that standard tips cannot reach
- 102 mm maximum length offers safe access to 100 mm test tubes
- Flo-Thru rack reduces tip wobble and improves airflow while autoclaving
- Universal fit works with most major brands of pipetters

Pipetter compatability: Fits Thermo Scientific Matrix Electronic Pipetters

Cat. No.	Description	Packaging Type
30 µL Matrix TallTip, 0.5-30 µL, 4.1 cm		
7600	30 µL TallTip	1000/bag
7631	30 µL TallTip	10 × 96/rack
7632	30 µL TallTip, sterile	10 × 96/rack
250 µL Matrix TallTip, 2-250 µL, 7.8 cm		
7280	250 µL TallTip	500/bag
7281	250 µL TallTip	10 × 96/rack
7282	250 µL TallTip, sterile	10 × 96/rack
300 µL Matrix TallTip, 2-300 µL, 10.2 cm		
7080	300 µL TallTip	500/bag
7081	300 µL TallTip	10 × 96/rack
7082	300 µL TallTip, sterile	10 × 96/rack
1250 µL Matrix TallTip, 15-250 µL, 10.2 cm		
8250	1250 µL TallTip	500/bag
8241	1250 µL TallTip	10 × 96/rack
8242	1250 µL TallTip, sterile	10 × 96/rack
8246	1250 µL TallTip ECOTIPS	10 × 96/refill

Thermo Scientific Matrix Filter Pipette Tips

Matrix Filter Pipette Tips are rigorously tested to deliver optimum performance.

Just because a tip has a filter doesn't necessarily mean that it is effective in blocking aerosols. Matrix filter tips are tested for many types of potential filter failure, and every lot must pass a rigorous battery of tests. If accidental contact with the filter should occur due to over-pipetting, your sample can be recovered by simply dispensing back out. Because the filter is hydrophobic, the sample will remain uncontaminated and will not be trapped in the filter.

Whether you're pipetting genomic material, bacterial samples or other precious samples, the risk of cross-contamination from aerosols created during pipetting is always a concern. To make certain no contamination of the pipetter barrel occurs, the use of filter tips is recommended.

Details

- Stringent testing guarantees filter tips that effectively block aerosols
- Hydrophobic polyethylene filter material ensures no particulates contaminate samples
- Inadvertent contact with filter will not contaminate sample or result in sample loss

Stringent Filter Testing

- Every filter must meet certain porosity requirements and must form a complete barrier across face of tip

Recommended for:

- Bacteriology
- Gel loading
- PCR setup
- Preventing cross-contamination during routine pipetting

Pipetter Compatibility: Thermo Scientific Matrix Electronic Pipetters

Cat. No.	Description	Volume	Length	Packaging Type
7615	10 µL Filter Tip, sterile	0.2-10 µL	3.1 cm	10 × 96/rack
7425	12.5 µL 384 Filter Tip, sterile	0.5-12.5 µL	4.1 cm	10 × 384/rack
7155	30 µL Filter Tip, sterile	1-30 µL	4.9 cm	10 × 96/rack
7435	30 µL 384 Filter Tip, sterile	1-30 µL	4.8 cm	10 × 384/rack
7445	125 µL 384 Filter Tip, sterile	2-125 µL	5.4 cm	10 × 384/rack
7275	200 µL Filter Tip, sterile	2-200 µL	5.4 cm	10 × 96/rack
7325	250 µL Filter Tip, sterile	2-250 µL	5.8 cm	10 × 96/rack
8045	1250 µL Filter Tip, sterile	15-1250 µL	7.9 cm	10 × 96/rack

Thermo Scientific Matrix TallTip Filter Pipette Tips

Matrix TallTip Filter Pipette Tips provide extended length for maximum reach and contamination protection for your samples and pipetters.

Extended-length tips allow you to access the bottom of test tubes, reagent bottles, flasks and other vessels without touching the barrel of your pipette against the side of the tube.

The longer tip length of Matrix TallTip Extended Length tips allows you to reach the bottom of long or narrow vessels that standard tips cannot reach. Non-beveled, narrow tip ends provide cleaner touch-off of sidewalls for greater precision. The hydrophobic filters effectively block aerosols and ensure that no particulates contaminate samples.

Details

- Prevents cross-contamination from vessel walls
- Allows the use of large volume tips in small spaces, resulting in less liquid displacement
- Non-beveled, narrow tip ends provide cleaner touch-off of sidewalls for greater precision
- Reach the bottom of particularly long or narrow vessels that standard tips cannot reach
- 102 mm maximum length offers safe access to 100 mm test tubes
- Flo-Thru rack reduces tip wobble and improves airflow while autoclaving
- Universal fit works with most major brands of pipetters

Hydrophobic Filter

- Stringent testing guarantees filter tips that effectively block aerosols
- Hydrophobic filter material ensures no particulates contaminate samples
- Easy-to-open packaging helps product to maintain sterility while being easy to access
- Hinged rack lids can be opened without laying lid on bench top, maintaining sterility

Pipetter Compatibility: Fits Thermo Scientific Matrix Electronic Pipetters

Cat. No.	Description	Volume	Length	Packaging Type
7635	12.5 µL TallTip Filter Tip, sterile	0.5-12.5 µL	4.1 cm	10 × 96/rack
7285	200 µL TallTip Filter Tip, sterile	2-200 µL	7.8 cm	10 × 96/rack
7085	250 µL TallTip Filter Tip, sterile	2-250 µL	10.2 cm	10 × 96/rack
8245	1250 µL TallTip Filter Tip, sterile	15-1250 µL	10.2 cm	10 × 96/rack

The Matrix Electronic Pipette with equalizer tip spacing increases productivity while reducing the risk of Repetitive Strain Injury (RSI).

Thermo Scientific Matrix Reagent Reservoirs

Matrix Reagent Reservoirs offer a unique, innovative design to accommodate a variety of applications.

These sterile reservoirs offer an extra-wide base to add rigidity and stability, helping to avoid spills. The 25 mL divided reservoir allows the pipetting of two different reagents with up to eight channels on one side, and up to four on the other, maximizing recovery if using only a single channel and a small amount of reagent.

Details

- Trough-within-a-trough maximizes amount of liquid accessible to pipette tips when using small amounts of reagent
- Pour-off spouts on all four corners reduce spillage when pouring reagents out of reservoir
- Graduations on inside wall enable quick measurement of remaining liquid
- Extra-wide base adds rigidity and stability to reservoir, helping to avoid spills
- Sterile reservoirs are packaged in snap-and-tear bags for sterility and easy opening
- 25 mL divided reservoir allows the pipetting of two different reagents with up to eight channels on one side, and up to four on the other; maximizes recovery if using only single channel and small amount of reagent

Cat. No.	Capacity	Packaging	Mfr. No.
Sterile Polystyrene			
8093	25 mL	10 Bags of 10	8093
8093EA	25 mL		8093EA
8094	25 mL	Indiv. wrapped	8094
8095	25 mL, with divider	10 Bags of 10	8095
8096	25 mL, with divider	Indiv. wrapped	8096
8085	100 mL	10 Bags of 10	8085
8086	100 mL	Indiv. wrapped	8086
Autoclavable Polypropylene			
8075	75 mL, without divider	100 per case	8075
Reservoir Lids			
8076	75 mL	10 per case	8076

Thermo Scientific Matrix Memowell Pipetting Aid

The Matrix Memowell Pipetting Aid is a 96-well LED light box that helps you to keep track of pipetting in a microplate, reducing errors.

This pipetting aid is ideally suited for tracking the pipetting of colorless reagents or minute liquid volumes, and marking progress when interrupted or when moving between sample tubes and a 96-well plate. An LED light is illuminated under specific wells, rows or columns of a microplate, which can be used to keep track of specific areas of a plate when filling, or indicate wells that need to be aspirated. To advance the light(s) to the next well or row, simply press a button on the unit, or use the optional foot switch for hands-free operation.

Details

- Microplate tracking reduces errors when filling microplates or performing plate-to-plate transfers; also facilitates hit-picking
- Contains six pre-programmed sequences; six additional programs can be accommodated
- Works manually or with optional MemoControl software for even greater tracking capabilities
- Plate reader results can be used to control lighting of specific columns, rows, or individual wells via software
- Multiple Memowell units can be linked together to keep track of plate-to-plate transfers
- Onboard batteries allow cordless operation without a power supply
- Optional foot switch control enables hands-free operation

MemoControl Software

- Microsoft* Excel plug-in; used in conjunction with a Windows* PC and plate reader
- Allows you to program Memowell to illuminate rows, columns or individual wells based on user-defined plate readings
- Manipulate reader data in Excel before using Memowell
- LED display can be programmed to indicate all wells containing hits with a light that is on, off or blinking
- The software supports the illumination of a four-well set within a 384-well microplate, which can be targetted and displayed on a PC monitor

Recommended for: Hit-picking, tracking plate filling, tracking plate-to-plate transfers

Cat. No.	Description
5000	Memowell Pipetting Aid
5008	MemoControl Software
6201	Foot Switch Control
5002	Rechargeable Batteries
5009	PC Connection Cable, 9/25 Pin

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Molecular BioProducts and Pure Pipette Tips with MicroPoint Tip Design

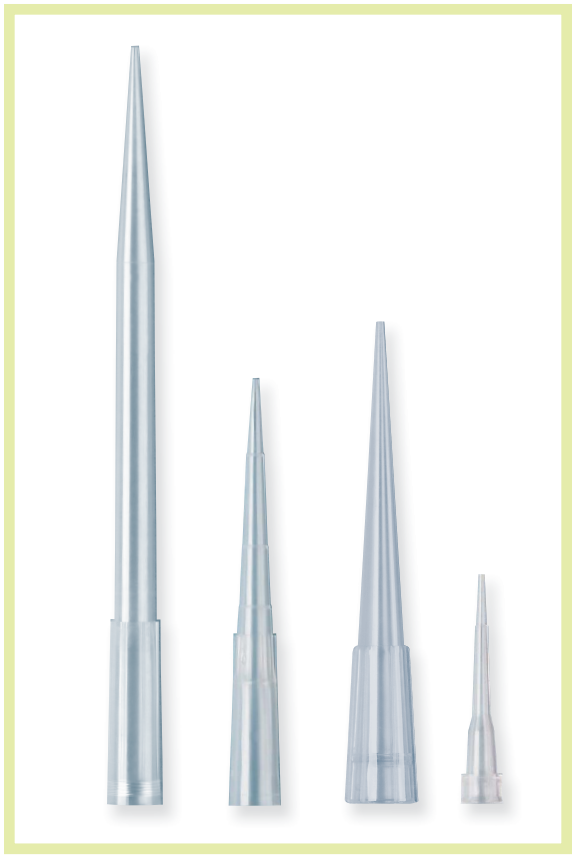
Molecular BioProducts* Tips with MicroPoint* design offer a tip profile that is significantly smaller and narrower than standard tips.

Molecular BioProducts and Pure Pipette Tips with MicroPoint Tip Design provide precise delivery, especially when working with low-volume samples. This is the result of a tip profile that is nearly 50 percent smaller than standard blunt-end tips and significantly more narrow than beveled-end tips. Crystal clear tips allow you to easily see transparent samples.

Details

- Same superior quality as ART* tips, except without the barrier
- Crystal clear tips allow you to easily see transparent samples
- Reference marks on many Molecular BioProducts Tips provide a quick and convenient guide to visually establish whether you are pipetting the desired volume of liquid
- All Pure tips are racked, pre-sterilized and certified free of RNase, DNase, DNA and pyrogen; other Molecular BioProducts racked and bulk tips are nonsterile and autoclavable. Pure 10 tips are ideal for low volume samples
- The extended length Pure 10 REACH* and Pure 1000 REACH prevent contamination of samples, tubes, and pipetters
- Ultra Micro and Pure Ultra Micro are also well suited for low volume samples
- 200 and Pure 200 are equivalent to the "Universal Yellow" tip and have a reference mark at 10 µL

Cat. No.	Description	Volume	Packaging
3501	Pure 10	0.1-10 µL	Racked, Sterile
3502	10	0.1-10 µL	Racked
3500	10	0.1-10 µL	Bulk
3511	Pure 10 Reach	0.1-10 µL	Racked, Sterile
3512	10 Reach	0.1-10 µL	Racked
3510	10 Reach	0.1-10 µL	Bulk
3521	Pure Ultra Micro	0.5-20 µL	Racked, Sterile
3522	Ultra Micro	0.5-20 µL	Racked
3520	Ultra Micro	0.5-20 µL	Bulk
3551	Pure 200	0.5-200 µL	Racked, Sterile
3552	200	0.5-200 µL	Racked
3550	200	0.5-200 µL	Bulk
3541	Pure XLP	5-200 µL	Racked, Sterile
3542	XLP	5-200 µL	Racked
3540	XLP	5-200 µL	Bulk
3531	Pure 200G	40-200 µL	Racked, Sterile
3532	200G	40-200 µL	Racked
3530	200G	40-200 µL	Bulk
3571	Pure 300	1-300 µL	Racked, Sterile
3572	300	1-300 µL	Racked
3570	300	1-300 µL	Bulk
3561	Pure 300E	1-300 µL	Racked, Sterile
3562	300	1-300 µL	Racked
3591	Pure 1000G	100-1000 µL	Racked, Sterile
3592	1000G	100-1000 µL	Racked
3590	1000G	100-1000 µL	Bulk
3791	Pure 1000 Reach	100-1000 µL	Racked, Sterile
3792	1000 Reach	100-1000 µL	Racked



Notes: HLT tips are available in yellow and blue colors, graduated, beveled tips and large volumes.

Pipetter Compatibility: Universal fit for research-grade pipetters

Molecular BioProducts and Pure Pipette Tips with SoftFit Tip Design

Molecular BioProducts and Pure Pipette Tips feature SoftFit* design, which allows the tips to conform securely to the barrel of the pipetter.

Designed with thinner walls than ordinary pipette tips, SoftFit Tips conform more easily to the pipetter barrel, enabling a better seal and allowing the tip to eject with less force. Available as sterile or nonsterile offerings.

Details

- Same superior quality as ART tips, except without the barrier
- Crystal clear tips allow you to easily see transparent samples
- Reference marks on many Molecular BioProducts tips provide a quick and convenient guide to visually establish whether you are pipetting the desired volume of liquid
- All Pure tips are racked, pre-sterilized and certified free of RNase, DNase, DNA and pyrogen; other Molecular BioProducts racked and bulk tips are nonsterile and autoclavable
- SoftFit design provides universal fit and easy loading and ejecting; ideal for multichannel pipetting

Pipetter Compatibility: Universal fit for research-grade pipettes

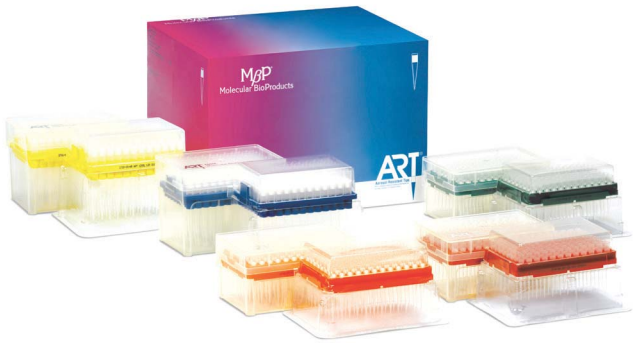
Cat. No.	Description	Volume	Packaging
3771	Pure 300U	1.0-300 µL	Racked, sterile
3772	300U	1.0-300 µL	Racked
3581	Pure 1000	100-1000 µL	Racked, sterile
3582	1000	100-1000 µL	Racked
3580	1000	100-1000 µL	Bulk

Molecular BioProducts Pure Pipette Tips with SoftFit L Design

Molecular BioProducts SoftFit L Pipette Tips are designed for use with Rainin* LTS* LiteTouch* Pipetters.

SoftFit L Tips have a positive stop feature that fits exclusively to Rainin LTS pipetters.

Designed with thinner walls than ordinary pipette tips, SoftFit L tips conform more easily to the pipetter barrel, providing a better seal and allowing the tip to eject with less force. Available as sterile or nonsterile offerings.



Details

- Molecular BioProducts tips are nonsterile; Pure are sterile (see below)
- Available in lift-off or hinged racks.

Hinged Racks

- Covers can be used as hinged or lift-off style
- Easy, one-hand operation of locking clasp
- Pipette tip inserts clip securely into racks but are easy to remove
- Empty rack part numbers allow for easy conversion to reload system
- All components are completely recyclable and contain recycling symbols
- Economical and environmental design reduces waste and saves bench space

Pipetter Compatibility: Rainin LTS LiteTouch Pipetter

Cat. No.	Volume	Packaging
MBP Tips		
3722	20 µL	Racks, 10 × 96
3722-HR	20 µL	Hinged Racks, 10 × 96
3752	200 µL	Racks, 10 × 96
3752-HR	200 µL	Hinged Racks, 10 × 96
3732	300 µL	Racks, 10 × 96
3732-HR	300 µL	Hinged Racks, 10 × 96
3782	1000 µL	Racks, 8 × 96
3782-HR	1000 µL	Hinged Racks, 8 × 96
3742	1200 µL	Racked, 8 × 96
3742-HR	1200 µL	Hinged Racks, 8 × 96
Pure Tips, Sterile		
3721	20 µL	Racks, 10 × 96
3721-HR	20 µL	Hinged Racks, 10 × 96
3731	200 µL	Racks, 10 × 96
3751	200 µL	Racks, 10 × 96
3751-HR	200 µL	Hinged Racks, 10 × 96
3731	300 µL	Racks, 10 × 96
3731-HR	300 µL	Hinged Racks, 10 × 96
3781	1000 µL	Racks, 8 × 96
3781-HR	1000 µL	Hinged Racks, 8 × 96
3741	1200 µL	Racks, 8 × 100
3741-HR	1200 µL	Hinged Racks, 8 × 96

Molecular BioProducts ART* Barrier Tips with MicroPoint Design

Molecular BioProducts ART Tips are pre-sterilized and precision-molded, with the ART self-sealing barrier.

Ideal for use in genetic studies, forensics, PCR and radioisotope sampling, ART barrier tips with MicroPoint design are pre-sterilized and precision-molded. The ART self-sealing barrier prevents carryover contamination during aspiration and delivery of samples.

Details

- Pre-sterilized and precision-molded tips with the ART self-sealing barrier
- Certified RNase-, DNase-, and pyrogen-free
- Self-sealing barrier prevents carryover contamination during aspiration and delivery of samples
- MicroPoint design minimizes surface area around the tip orifice for reduced surface tension and greater accuracy
- Ideal for use in genetic studies, forensics, PCR and radioisotope sampling
- Available in numerous sizes and styles to meet all of your liquid handling needs

Pipetter Compatibility: Universal fit for research-grade pipetters

Note: Standard ART tips are also available in bulk and individually-wrapped packaging.

Cat. No.	ART Tip	Volume	Packaging
Standard ART Tips with MicroPoint Design			
2155P	Gel 20P, Gel Loading	0.5-20 µL	Racked, sterile
2155	Gel 100, Gel Loading	0.5-100 µL	Racked, sterile
2065	100	0.5-100 µL	Racks, 10 × 96, Sterile
2065-HR	100	0.5-100 µL	Hinged racks, 10 × 96, Sterile
2065-RI	100	0.5-100 µL	Reload insert
2065E	100E	1-100 µL	Racks, 10 × 96, Sterile
2065E-HR	100E	1-100 µL	Hinged racks, 10 × 96, Sterile
2065E-RI	100E	1-100 µL	Reload insert
2069	200	1-200 µL	Racks, 10 × 96 Sterile
2069-HR	200	1-200 µL	Hinged Racks, 10 × 96, Sterile and 2069-RI,200 1-200 µL, Reload Insert, 10 × 96
2159P	XLP, Ext. Length	5-180 µL	Racks, 8 × 96, Sterile
2160P	XLP 200, Ext. Length	5-200 µL	Racks, 8 × 96, Sterile
2069G	200G, Genomic	5-200 µL	Racks, 10 × 96, Sterile
2070	300	1-300 µL	Racks, 10 × 96, Sterile
2079E	1000E	100-1000 µL	Racks, 8 × 100 Sterile
2079G	1000G, Genomic	100-1000 µL	Racks, 8 × 100, Sterile
2079	1000 Reach, Ext. Length	100-1000 µL	Racks, 8 × 100, Sterile
2179-HR	1000XL	100-1000 µL	Hinged Racks, 8 × 96, Sterile and 2179-RI,1000XL, 100-1000 µL, Reload Insert, 8 × 96
2180B	5000	1-5 mL	Bag, 250
2149	20	0.1-20 µL	Racks, 10 × 96, sterile
2149P	20P	0.1-20 µL	Racks, 10 × 96, Sterile
2149P-HR	20P	1-20 µL	Hinged Racks, 10 × 96, Sterile and 2149P-RI,20P, 1-20 µL, Reload Insert, 10 × 96

Molecular BioProducts ART Barrier Ultra Micro Tips with MicroPoint Design

Molecular BioProducts ART Tips are pre-sterilized and precision-molded, with the ART self-sealing barrier.

Certified RNase-, DNase-, and pyrogen-free, ART Ultra Micro Barrier Tips prevent carryover contamination during aspiration and delivery of samples. They are perfect for low-volume applications in genetic studies, forensics, PCR and radioisotope sampling.

Details

- Guaranteed to prevent carryover contamination during aspiration and delivery of samples
- Certified RNase-, DNase-, and pyrogen-free
- Ideal for low-volume applications in genetic studies, forensics, PCR and radioisotope sampling

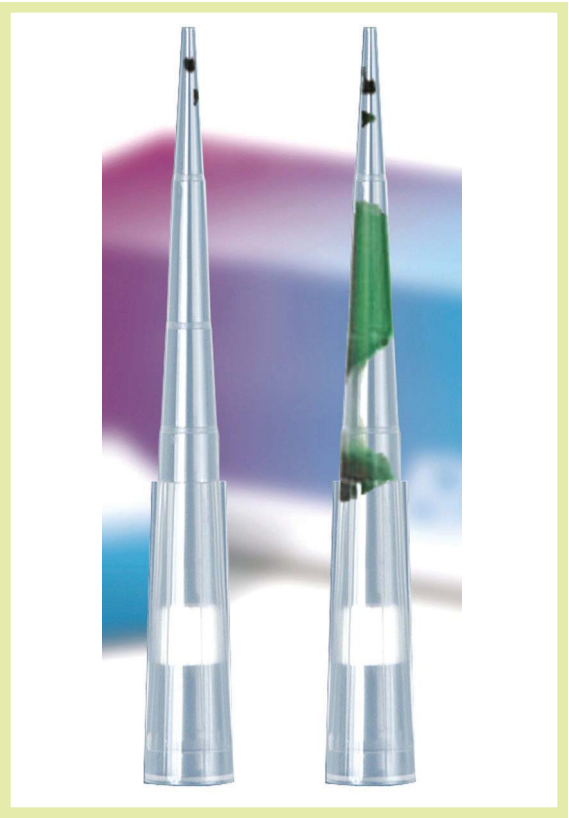
Tip Types:

- The ART 10 and 10F have a 2 µL reference mark and are perfect for pipetting low volumes
- The extended tip length of the ART 10 REACH* prevents contamination of samples, tubes, and pipetters
- The ART 20E is an ultra-micro tip design for Eppendorf* and Nichiryo/BenchMate* pipetters
- The ART 20P has a 10 µL reference mark and is well suited for low volumes

Note: Standard ART tips are also available in bulk and individually-wrapped packaging.

Cat. No.	ART Tip	Volume	Packaging
2139	10	10 µL	Racked, 10 × 96
2139-HR	10	10 µL	Hinged Racks, 10 × 96, Sterile
2139-RI	10	10 µL	Reload Insert, 10 × 96
2140	10 Reach	10 µL	Racked, 10 × 96
2140-HR	10 Reach	10 µL	Hinged racks, 10 × 96
2140-RI	10 Reach	10 µL	Reload insert
2139F	10F	10 µL	Racked, 10 × 96
2149E	20E	10 µL	Racked, 10 × 96
2149E-HR	20E	10 µL	Hinged racks, 10 × 96
2149E-RI	20E	10 µL	Reload insert
2149P	20P	20 µL	Racked, 10 × 96
2149P-HR	20P	20 µL	Hinged racks, 10 × 96
2149P-RI	20P	20 µL	Reload insert

Molecular BioProducts Low Retention Pipette Tips with ART Self-Sealing Barrier



Molecular BioProducts Low Retention Pipette Tips increase sample reproducibility and accuracy.

The extremely hydrophobic inner surface of Molecular BioProducts Low Retention Pipette Tips increases sample reproducibility and sample accuracy. Certified RNase-, DNase- and pyrogen-free, they are ideal for use in genetic studies, forensics, PCR and radioisotope sampling.

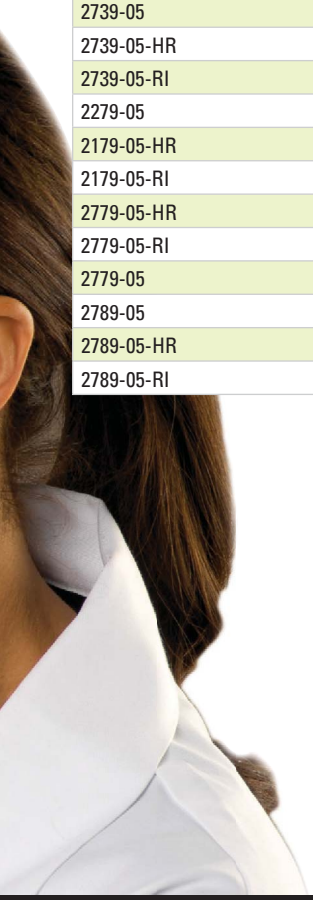
Details

- Specifically designed for eliminating sample retention within the pipette tip
- Extremely hydrophobic inner surface increases sample reproducibility and sample accuracy
- Pre-sterilized and precision-molded tips with the ART self-sealing barrier
- Prevent carryover contamination during aspiration and delivery of samples
- Certified RNase-, DNase- and pyrogen-free
- Ideal for use in genetic studies, forensics, PCR and radioisotope sampling
- SoftFit-L tips are compatible with LTS pipets made by Rainin Instrument, LLC
- Racked, pre-sterilized

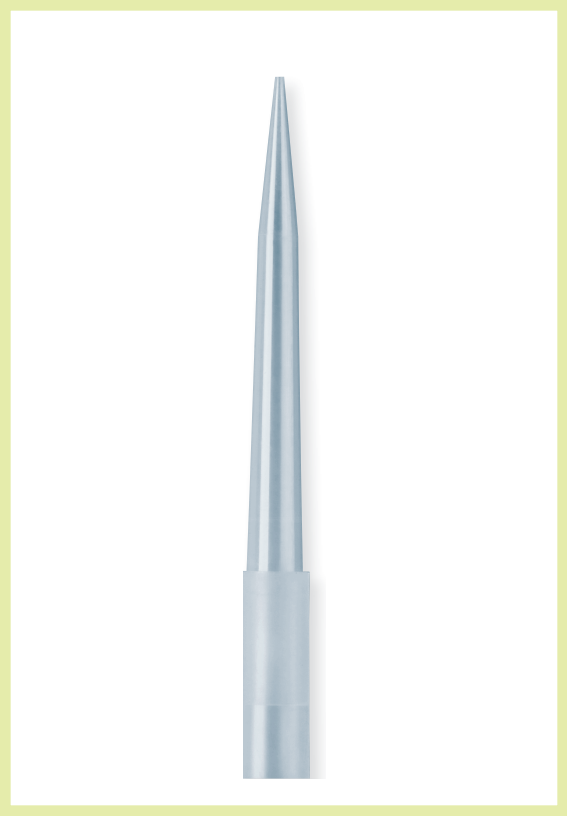
Note: ART Low Retention Tips are available in hinged racks and reload inserts. Please see www.thermoscientific.com for a full list of available products.

Pipette compatability: SoftFit L tips are compatible with LTS pipetters made by Rainin Instrument, LLC. All other tips have universal fit for research grade pipetters.

Cat. No.	ART Tip	Volume	Packaging
2139-05	10	0.1-10 µL	Rack, 10 × 96
2139-05-HR	10	10 µL	Hinged Racks, 10 × 96
2139-05-RI	10	10 µL	Reload Insert, 10 × 96
2140-05	10 Reach*, MicroPoint	0.1-10 µL	Rack, 10 × 96
2140-05-HR	10 Reach, MicroPoint	0.1-10 µL	Hinged Rack, 10 × 96
2140-05-RI	10 Reach, MicroPoint	0.1-10 µL	Reload insert
2139F-05	10F, MicroPoint	0.5-10 µL	Rack, 10 × 96
2149P-05	20P, MicroPoint	0.5-20 µL	Rack, 10 × 96
2149P-05-HR	20P, MicroPoint	0.5-20 µL	Hinged Racks, 10 × 96
2149P-05-RI	20P, MicroPoint	0.5-20 µL	Reload insert
2149E-05	20E, Ultra Micro	0.5-10 µL	Rack, 10 × 96
2149E-05-HR	20E, Ultra Micro	0.5-10 µL	Hinged Racks, 10 × 96
2149E-05-RI	20E, Ultra Micro	0.5-10 µL	Hinged Racks, Reload insert
2749-05	20L, SoftFit-L	0.5-10 µL	Rack, 10 × 96
2749-05-HR	20L, SoftFit-L	0.5-10 µL	Hinged Rack, 10 × 96
2749-05-RI	20L, SoftFit-L	0.5-10 µL	Reload insert
2065E-05	100E, MicroPoint	0.1-100 µL	Rack, 10 × 96
2065E-05-HR	100E MicroPoint	1-100 µL	Hinged Rack, 10 × 96
2065E-05-RI	100E MicroPoint	1-100 µL	Reload insert, 10 × 96, Sterile
2069-05	200, MicroPoint	1.0-200 µL	Rack, 10 × 96
2069-05-HR	200, MicroPoint	200 µL	Hinged Rack, 10 × 96
2069-05-RI	200, MicroPoint	200 µL	Reload insert
2769-05	200L, SoftFit L	200 µL	Rack, 10 × 96
2769-05-HR	200L, SoftFit L	200 µL	Hinged Rack, 10 × 96
2769-05-RI	200L, SoftFit L	200 µL	Reload insert
2739-05	300L, SoftFit L	300 µL	Rack, 10 × 96
2739-05-HR	300L, SoftFit L	300 µL	Hinged Rack, 10 × 96
2739-05-RI	300L, SoftFit L	300 µL	Reload insert
2279-05	1000, SoftFit	100-1000 µL	Rack, 10 × 96
2179-05-HR	1000XL	100-1000 µL	Hinged Rack, 8 × 96
2179-05-RI	1000XL	100-1000 µL	Reload insert
2779-05-HR	1000L, SoftFit L	100-1000 µL	Hinged Rack, 8 × 96
2779-05-RI	1000L, SoftFit L	100-1000 µL	Reload insert
2779-05	1000L, SoftFit L	100-1000 µL	Hinged Rack, 8 × 96
2789-05	1200L, SoftFit L	100-1200 µL	Rack, 8 × 96
2789-05-HR	1200L, SoftFit L	1200 µL	Hinged Rack, 8 × 96
2789-05-RI	1200L, SoftFit L	1200 µL	Reload insert



Molecular BioProducts Low Retention Pipette Tips



Molecular BioProducts Low Retention Pipette Tips are specifically designed for eliminating sample retention within the pipette tip.

The inner surface of the Molecular BioProducts Low Retention Pipette tip is extremely hydrophobic, reducing loss of sample from adhesion to tip interior.

Details

- Inner surface is extremely hydrophobic, increasing sample reproducibility and sample accuracy
- Crystal clear tips allow you to easily see transparent samples
- Reference marks on many Molecular BioProducts tips provide a quick and convenient guide to visually establish whether you are pipetting desired volume of liquid
- All Pure tips are racked, pre-sterilized and certified free of RNase, DNase, DNA and pyrogen
- Other Molecular BioProducts racked and bulk tips are nonsterile and autoclavable

Pipetter compatability: SoftFit L tips are compatible with LTS pipetters made by Rainin Instrument, LLC. All other tips have universal fit for research grade pipetters.

Cat. No.	ART Tip	Volume	Packaging
Pure Sterile Tips			
3501-05	Pure 10	0.1-10 µL	Racked, 10 × 96
3511-05	Pure 10, Reach	0.1-10 µL	Racked, 10 × 96
3721-05	Pure 20L, SoftFit L	0.1-20 µL	Racked, 10 × 96
3721-05-HR	Pure 20L, SoftFit L	0.1-20 µL	Hinged Rack, 10 × 96
3931-05	Pure 200	0.5-200 µL	Racked, 10 × 96
3551-05	Pure 250	0.5-250 µL	Racked, 10 × 96
3751-05	Pure 200L, SoftFit L	0.5-250 µL	Racked, 10 × 96
3751-05-HR	Pure 200L, SoftFit L	0.5-250 µL	Hinged Rack, 10 × 96
3731-05	Pure 300L, SoftFit L	10-300 µL	Racked, 10 × 96
3731-05-HR	Pure 300L, SoftFit L	10-300 µL	Hinged Rack, 10 × 96
3771-05	Pure 300U	1.0-300 µL	Racked, 10 × 96, Multichannel
3781-05	Pure 1000L, SoftFit L	100-1000 µL	Racked, 8 × 96
3781-05-HR	Pure 1000L, SoftFit L	100-1000 µL	Hinged Rack, 8 × 96
3581-05	Pure 1000	100-1000 µL	Racked 8 × 96
3741-05	Pure 1200L, SoftFit	L 100-1200 µL	Racked, 8 × 96
3741-05-HR	Pure 1200L, SoftFit	L 100-1200 µL	Hinged Rack, 8 × 96
Nonsterile Tips			
3502-05	10 Micro Tip, MicroPoint	0.1-10 µL	Racked, 10 × 96
3500-05	10 Micro Tip, MicroPoint	0.1-10 µL	Bulk
3512-05	10 Reach, MicroPoint	0.1-10 µL	Racked, 10 × 96
3510-05	10 Reach, MicroPoint	0.1-10 µL	Bulk
3722-05	20L, SoftFit L	0.1-20 µL	Racked, 10 × 96
3722-05-HR	20L, SoftFit L	0.1-20 µL	Hinged Rack, 10 × 96
3932-05	200	0.5-200 µL	Racked, 10 × 96
3930-05	200	0.5-200 µL	Bulk
3550-05	200	0.5-200 µL	Bulk
3552-05	200L, SoftFit, MicroPoint	0.5-200 µL	Racked, 10 × 96
3752-05	200L, SoftFit L	10-250 µL	Racked, 10 × 96
3752-05-HR	200L, SoftFit L	10-250 µL	Hinged Rack, 10 × 96
3732-05	300L, SoftFit L	10-300 µL	Racked, 10 × 96
3732-05-HR	300L, SoftFit L	10-300 µL	Hinged Rack, 10 × 96
3772-05	300U	1.0-300 µL	Racked, 10 × 96, Multichannel
3782-05	1000L, SoftFit L	100-1000 µL	Racked, 8 × 96
3782-05-HR	1000L, SoftFit L	100-1000 µL	Hinged Rack, 8 × 96
3582-05	1000	100-1000 µL	Racked 8 × 96
3742-05	1200L, SoftFit L	100-1200 µL	Racked, 8 × 100
3742-05-HR	1200L, SoftFit L	100-1200 µL	Hinged Rack, 8 × 96

Molecular BioProducts Pipette Tips Compatibility Chart

	Gilson/Pipetman								RAININ														
ART Cross Reference	Pipetman P-2 2ul	Pipetman P-10 10 µL	Pipetman P-20 20 µL	Pipetman P-100 100 µL	Pipetman P-200 200 µL	Pipetman P-1000 1000 µL	Pipetman P-5000 5 mL	Pipetman P-10 mL 10 mL	EP-10/E2-MIC-10 10 µL	EP-25/E2-25 25 µL	EP-100/E2-100 100 µL	EP-250/E2-100 250 µL	EP-1000/E2-1000 1000 µL	Pipet Lite LTS L-2 2 µL	Pipet Lite LTS L-10 10 µL	Pipet Lite LTS L-20 20 µL	Pipet Lite LTS L-100 100 µL	Pipet Lite LTS L-200 200 µL	Pipet Lite LTS L-1000 1000 µL	LTS 8 & 12 Multi-Channel L8-10 L12-10	LTS 8 & 12 Multi-Channel L8-20 L12-20	LTS 8 & 12 Multi-Channel L8-200 L12-200	LTS 8 & 12 Multi-Channel L8-300 L12-300
10 µL																							
ART 10	•	•							•														
ART 10 REACH	•	•							•														
ART 10F				•	•																		
ART 20E																							
20 µL to 100 µL																							
ART 20																							
ART 20P										•													
ART GEL 20P			•	•	•																		
ART 20L																•							
ART 20 ERGO-F																							
ART 50U																							
ART 100				•	•																		
ART 100E				•	•																		
ART 100 ERGO-G				•																			
ART 100 ERGO-F																							
ART GEL 100																							
ART XLP																							
200 µL to 500 µL																							
ART 200				•	•							•											
ART 200U					•							•											
ART 200G																							
ART 200L																	•	•					
ART 200 ERGO-G					•																		
ART 200 ERGO-F																							
ART XLP 200																							
ART XLG																							
ART 300																							
1 mL to 5 mL																							
ART 1000																							
ART 1000E						•							•										
ART 1000 REACH						•																	
ART 1000G																							
ART 1000L																			•				
ART 1000 ERGO-G						•																	
ART 1000 ERGO-F																							
ART 1200																							
ART 1250																							
ART 5000																							

Molecular BioProducts Pipette Tips Compatibility Chart

RAININ														EPPENDORF												
LTS 8 & 12 Multi-Channel L8 & L12-1200	EDP3 Electronic E3-10	EDP3 Electronic E3-20	EDP3 Electronic E3-100	EDP3 Electronic E3-200	EDP3 Electronic E3-1000	EDP3 8 & 12 Multi-Channel E8-10 E12-10	EDP3 8 & 12 Multi-Channel E8-20 E12-20	EDP3 8 & 12 Multi-Channel E8-200 E12-200	EDP3 8 & 12 Multi-Channel E8-300 E12-300	EDP3 8 & 12 Multi-Channel E8 & E12 1200	EDP3 16 & 24 Multi-Channel 20 µL	EDP3 16 & 24 Multi-Channel 100 µL	Research Reference 2.5 µL	Research Reference 10 µL	Reference Ultra Micro 20 µL gray	Research Reference 20 µL Yellow	Research Reference 100 µL	Research Reference 200 µL	Reference 250 µL	Research Reference 1000 µL	Research Reference 5000 µL	Research Multichannel 8 & 12 10 µL	Research Multichannel 8 & 12 100 µL	Research Multichannel 8 & 12 300 µL	Response 4850 Electric 10 µL
10 µL																										
															•											
													•		•											
																		•						•	•	
														•	•											•
20 µL to 100 µL																										
														•	•							•				
																•	•	•					•			
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																•	•	•					•			
																								•	•	
200 µL to 500 µL																										
																		•					•	•		
																								•	•	
																								•	•	
																		•	•						•	
1 mL to 5 mL																										
																				•						
																				•						
																				•						

Molecular BioProducts Pipette Tips Compatibility Chart

	EPPENDORF														NICHIRYO/OXFORD							
ART Cross Reference	Response 4850 Electric 100 µL	Response 4850 Electric 500 µL	Response 4850 Electric 1000 µL	Titerman 4908 Multi-Channel 10 µL	Titerman 4908 Multi-Channel 50 µL	Titerman 4908 Multi-Channel 300 µL	Research Pro Electronic 10 µL	Research Pro Electronic 100 µL	Research Pro Electronic 300 µL	Research Pro Electronic 1000 µL	Research Pro Multi-Channel 8 & 12 10 µL	Research Pro Multi-Channel 8 & 12 100 µL	Research Pro Multi-Channel 8 & 12 300 µL	Research Pro Multi-Channel 8 1200 µL	BenchMate 2 µL	BenchMate 10 µL	BenchMate 20 µL	BenchMate 50 µL	BenchMate 100 µL	BenchMate 200 µL	BenchMate 1000 µL	BenchMate 5000 µL
10 µL																						
ART 10															•	•						
ART 10 REACH															•	•						
ART 10F					•	•		•	•											•		
ART 20E				•			•									•						
20 µL to 100 µL																						
ART 20							•									•						
ART 20P	•				•	•		•	•								•	•	•	•		
ART GEL 20P																			•	•		
ART 20L																						
ART 20 ERGO-F																						
ART 50U					•			•														
ART 100					•	•		•	•										•	•		
ART 100E	•				•	•		•	•										•	•		
ART 100 ERGO-G																						
ART 100 ERGO-F																						
ART GEL 100																						
ART XLP																						
200 µL to 500 µL																						
ART 200		•			•	•			•											•		
ART 200U																						
ART 200G																						
ART 200L																						
ART 200 ERGO-G																						
ART 200 ERGO-F																						
ART XLP 200																						
ART XLG																				•		
ART 300		•				•			•				•							•		
1 mL to 5 mL																						
ART 1000			•							•											•	
ART 1000E										•											•	
ART 1000 REACH																					•	
ART 1000G			•																			
ART 1000L																						
ART 1000 ERGO-G																						
ART 1000 ERGO-F																						
ART 1200																						
ART 1250																						
ART 5000																						

Molecular BioProducts Pipette Tips Compatibility Chart

BIOHIT														SOCOREX								
Proline Electronic 10 µL	Proline Electronic 100 µL	Proline Electronic 250 µL	Proline Electronic 500 µL	Proline Electronic 1000 µL	Proline Variable 10 µL	Proline Variable 50 µL	Proline Variable 200 µL	Proline Variable 1000 µL	Proline Variable 5000 µL	Proline Multi-Channel 10 µL	Proline Multi-Channel 50 µL	Proline Multi-Channel 100 µL	Proline Multi-Channel 250 µL	Calibra 2 µL	Calibra 10 µL	Calibra 20 µL	Calibra 100 µL	Calibra 200 µL	Calibra 1000 µL	Calibra Multichannel 50 µL	Calibra Multichannel 100 µL	Calibra Multichannel 200 µL
10 µL																						
					•					•				•	•							
•										•				•	•							
		•			•	•																
											•	•	•	•	•							
20 µL to 100 µL																						
														•	•							
		•											•			•	•	•				•
		•				•					•	•	•				•	•				
	•	•				•							•				•	•				•
																						•
200 µL to 500 µL																						
		•				•					•	•	•									
																						•
		•																			•	•
		•				•							•					•		•		•
1 mL to 5 mL																						
								•											•			
				•															•			
				•															•			

Molecular BioProducts Pipette Tips Compatibility Chart

	mLA				BRANDTECH															
ART Cross Reference	mLA 50 µL	mLA 200 µL	mLA 5000 µL	Digital Pipet 200 µL	Transferpette Multi-Channel 10 µL	Transferpette Multi-Channel 20 µL	Transferpette Multi-Channel 25 µL	Transferpette Multi-Channel 50 µL	Transferpette Multi-Channel 100 µL	Transferpette Multi-Channel 200 µL	Transferpette Multi-Channel 300 µL	Transferpette 10 µL	Transferpette 20 µL Ultra Micro	Transferpette 20 µL	Transferpette 50 µL	Transferpette 100 µL	Transferpette 200 µL	Transferpette 250 µL	Transferpette 1000 µL	Transferpette 5000 µL
10 µL																				
ART 10					•	•						•	•							
ART 10 REACH					•	•						•	•							
ART 10F	•	•					•	•	•											
ART 20E					•	•						•	•							
20 µL to 100 µL																				
ART 20					•	•														
ART 20P	•						•	•	•	•	•			•	•	•	•			
ART GEL 20P								•	•	•	•			•	•	•	•			
ART 20L																				
ART 20 ERGO-F																				
ART 50U																				
ART 100	•	•					•	•	•							•	•			
ART 100E	•						•		•	•	•			•	•		•			
ART 100 ERGO-G																				
ART 100 ERGO-F																				
ART GEL 100									•	•	•						•			
ART XLP							•		•	•	•				•	•	•			
200 µL to 500 µL																				
ART 200	•	•		•			•	•	•								•			
ART 200U										•							•			
ART 200G																				
ART 200L																				
ART 200 ERGO-G																				
ART 200 ERGO-F																				
ART XLP 200							•			•	•						•			
ART XLG	•	•					•			•	•						•			
ART 300							•		•	•	•						•			
1 mL to 5 mL																				
ART 1000																			•	
ART 1000E																			•	
ART 1000 REACH																			•	
ART 1000G																			•	
ART 1000L																				
ART 1000 ERGO-G																				
ART 1000 ERGO-F																				
ART 1200																				
ART 1250																				
ART 5000			•																	

Molecular BioProducts Pipette Tips Compatibility Chart

CORNING						HAMILTON						CAPP				Thermo Scientific			
4959 2 µL	4961 20 µL	4963 200 µL	4960 10 µL	4962 100 µL	4964 1000 µL	Precision 2 µL	Precision 10 µL	Precision 25 µL	Precision 100 µL	Precision 300 µL	Precision 1000 µL	Capp Aero 10 µL	Capp Aero 50 µL	Capp Aero 200 µL	Capp Aero 1000 µL	Matrix Impact 1250 µL	Matrix Impact 2 1250 µL	Matrix Electronic 125 µL	Matrix Electronic 250 µL
10 µL																			
			•			•	•					•							
•			•			•	•					•							
									•	•			•	•					
						•	•												
20 µL to 100 µL																			
						•	•												
	•							•						•					
									•	•			•	•					
				•				•						•					
								•	•				•	•				•	•
200 µL to 500 µL																			
		•							•	•			•	•					
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										•								•	•
1 mL to 5 mL																			
					•						•								
					•						•								
											•								
											•								

Molecular BioProducts Pipette Tips Compatibility Chart

		ART Filter (sterile)																				
ART Cross Reference		10	10F	10 Reach	20E	20P	Ergo-F 20	GEL 20P	Solvent Safe 20P	100	100E	100E	Ergo-F 100	GEL 100	101	200	300	1000	1000E	Ergo-F 1000	Ergo-G 1000	1000 Reach
Thermo Scientific Pipetter Description	**Cat. No.**	2139	2139F	2140	2149E	2149P	2350	2155P	5449P	2065	2065E	5479E	2360	2155	5469	2069	2070	2279	2079E	2380	2340	2079
F1 0.2-2 µL	4641010	•		•																		
F1 0.5-5 µL	4641020	•		•																		
F1 1-10 µL micro	4641030	•		•																		
F1 1-10 µL	4641040		•																			
F1 2-20 µL micro	4641050																					
F1 2-20 µL	4641060					•	•	•	•													
F1 10-100 µL	4641070									•			•	•	•	•	•					
F1 20-200 µL	4641080															•	•					
F1 30-300 µL	4641090																•					
F1 100-1000 µL	4641100																	•		•	•	•
F1 0.5-5 µL	4641110																					
F1 1-10 µL	4641120																					
F1 8-ch 1-10 µL	4661000	•																				
F1 12-ch 1-10 µL	4661040	•																				
F1 16-ch 1-10 µL	4661080																					
F1 8-ch 5-50 µL	4661010												•									
F1 12-ch 5-50 µL	4661050												•									
F1 16-ch 5-50 µL	4661090																					
F1 8-ch 10-100 µL	4661020												•									
F1 12-ch 10-100 µL	4661060												•									
F1 8-ch 30-300 µL	4661030																•					
F1 12-ch 30-300 µL	4661070																•					
F2 0.2-2 µL	4642010	•		•																		
F2 0.5-5 µL	4642020	•		•																		
F2/F3 1-10 µL micro	4642030 4640000	•		•																		
F2/F3 1-10 µL	4642040 4640010		•			•	•		•					•								
F2/F3 2-20 µL micro	4642050 4640020																					
F2/F3 2-20 µL	4642060 4640030					•	•		•													
F2/F3 10-100 µL	4642070 4640040									•			•	•	•	•	•					
F2/F3 20-200 µL	4642080 4640050																•					
F2/F3 100-1000 µL	4642090 4640060																					•
F2 0.5-5 mL	4642100																					

Molecular BioProducts Pipette Tips Compatibility Chart

		ART Filter (sterile)																				
ART Cross Reference		10	10F	10 Reach	20E	20P	Ergo-F 20	GEL 20P	Solvent Safe 20P	100	100E	100E	Ergo-F 100	GEL 100	101	200	300	1000	1000E	Ergo-F 1000	Ergo-G 1000	1000 Reach
Thermo Scientific Pipetter Description	**Cat. No.**	2139	2139F	2140	2149E	2149P	2350	2155P	5449P	2065	2065E	5479E	2360	2155	5469	2069	2070	2279	2079E	2380	2340	2079
F2/F3 1-10 µL	4642110 4640070																					
F2 8-ch 1-10 µL	4662000	•																				
F2 12-ch 1-10 µL	4662040	•																				
F2 16-ch 1-10 µL	4662080																					
F2 8-ch 5-50 µL	4662010												•									
F2 12-ch 5-50 µL	4662050												•									
F2 16-ch 5-50 µL	4662090																					
F2 8-ch 10-100 µL	4662020												•									
F2 12-ch 10-100 µL	4662060												•									
F2 8-ch 30-300 µL	4662030																•					
F2 12-ch 30-300 µL	4662070																•					
Novus 1-10 µL micro	46200000				•																	
Novus 1-10 µL	46200100																					
Novus 5-50 µL micro	46200200																					
Novus 5-50 µL	46200300																•					
Novus 10-100 µL	46200400															•	•					
Novus 30-300 µL	46200500																•					
Novus 100-1000 µL	46200600																	•				•
Novus 0.5-5 mL	46200700																					
Novus 1-10 mL	46200800																					
Novus 8-ch 1-10 µL	46300000	•		•																		
Novus 12-ch 1-10 µL	46300100	•		•																		
Novus 8-ch 5-50 µL	46300200																					
Novus 12-ch 5-50 µL	46300300																					
Novus 16-ch 5-50 µL	46300700																					
Novus 8-ch 30-300 µL	46300400																•					
Novus 12-ch 30-300 µL	46300500																•					
Novus 8-ch 100-1200 µL	46300800																					

Automated Liquid Handling

Delivering productivity with speed and precision

Thermo Scientific automated liquid handling systems are ideal for medium or high throughput applications, meeting multiple liquid handling requirements that include channels, microplate type or liquid volumes. Our automated liquid handling instruments reduce the time spent on repetitive pipetting tasks at any throughput level, delivering:

- Consistent results with increased efficiency for pipetting applications
- Improved productivity with higher liquid and microplate handling throughput
- Scalable and flexible options – including a broad array of accessories – to address a wide range of liquid handling requirements

Automated Liquid Handling

Thermo Scientific Multidrop Combi nL Reagent Dispenser

The Multidrop Combi* nL bulk reagent dispenser for nanoliter-to-microliter volumes provides accurate, consistent, high throughput dispensing for laboratories across a volume range of 50 nL to 50 µL.

The Multidrop Combi nL is a nano- to microvolume bulk reagent dispenser. It offers easy entry to precise, accurate and reliable low-volume dispensing for pharmaceutical and biotechnology laboratories.

Details

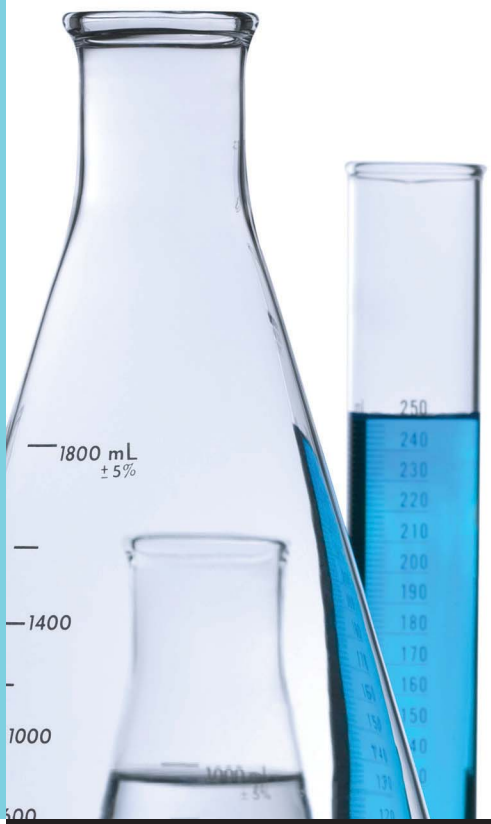
The Multidrop Combi nL reagent dispenser offers low volume dispensing for volumes 50 nL to 50 µL into 96-, 384- and 1536- well plates with excellent precision and accuracy.

- Reliable low volume dispensing: For precise dispensing over a 50 nL to 50 µL range, providing high quality assay data
- Increased flexibility: Dispenses repeatably into plates with variable height, allowing the user to fill rows, columns, or wells with the easy to use FILLit Software
- Effortless dispensing: The visual, icon-based onboard user interface makes all functions easy to setup, use, and maintain
- Reduced reagent costs: For low volume dispensing, a minimal dead volume and the backflush function minimize the use of expensive reagents
- High throughput: Fast dispensing combined with full robotic compatibility ensures increased assay throughput for laboratories requiring low volume assay formats

Increase throughput with a RapidStak Automated Microplate Stacker

Warranty and Service Offering: One year

Recommended for: Assay development, primary and secondary screening, genomics and proteomics research, PCR setup, sequencing setup, cell based assays and bead based assays



Specifications	
Plate Types	96-, 384- and -1536-well plates
Dispensing Volume Range	50 nL to 50 µL
Dispensing Precision	50 nL: CV≤10% 0.5 µL: CV≤5% 1-10 µL: CV≤4% >10 µL: CV≤2%
Dispensing Accuracy	<1 µL: ±5% >1 µL: ±2%
Dispensing Speed	384-well plate: 50nL in 6 seconds, 1 µL in 8 seconds 1536-well plate: 50nL in 21 seconds, 1 µL in 27 seconds
Dispensing Increments	1 nL increments 50-999 nL 10 nL increments 1.00-9.99 µL 100 nL increments 10.0-50.0 µL FILLit Software 1 nL increments
Dead Volume	<1.2 mL†
Interface	Serial RS-232, USB
Dimensions (W × D × H)	14 × 14.8 × 8.6 in. (35.5 × 37.5 × 22 cm)
Weight	9.6 kg (21.2 lbs.)
† Reagent recovery possible	

Cat. No.	Description
5840400	Volume range 50 nL to 50 µL; accommodates 96-, 384- and 1536-well microplates.

Thermo Scientific Multidrop Combi Reagent Dispenser

The Multidrop Combi Bulk Reagent Dispenser offers unrivaled levels of flexibility and performance to meet the requirements of reagent dispensing in pharmaceutical and biotechnology laboratories.

The Multidrop Combi Reagent Dispenser is easy to use and combines the most versatile features for reagent dispensing with excellent performance. It's ideal for drug discovery, genomics and proteomics assays.

The Multidrop Combi bulk reagent dispenser uses an autoclavable 8-channel dispensing cassette. It supports a wide selection of plates and volume ranges, offering fast dispensing and high-throughput operation.

Details

- Provides precise dispensing over a 0.5 to 2500 µL range, ensuring reproducible assay data
- Accommodates microplates from 6 to 1536 wells and plate heights of 5 to 50 mm
- Visual icon-based graphic display makes it easy to use and program without formal training
- Minimal dead volume and back-flushing reduce reagent costs
- Easy to use FILLit Software provides increased flexibility and functionality
- Full robotic compatibility provides increased throughput
- Uses 8-channel detachable and autoclavable dispensing cassettes that are standard across the Multidrop range

Multidrop Combi SMART

- Adds an advanced built-in tracing system to the Multidrop Combi
- Provides improved reliability and cassette lifetime traceability, greatly enhancing the user's efficiency and reporting capability

Recommended for: Assay development, primary and secondary screening, compound storage, genomics and proteomics research, PCR setup, sequencing setup, cell based assays, bead based assays, and ELISA assays

Includes: One standard tube dispensing cassette and two small tube dispensing cassettes (Multidrop Combi cat. nos. 24072670, 24073290, 24073295 and Multidrop Combi SMART cat.nos. 24072675, 24073292 and 24073297)

Warranty: One year

Specifications	
Plate Type	6- to 1536-well plates
Dispensing Volume Range	0.5 to 2500 µL
Dispensing Precision	Small tube dispensing cassette: 0.5 µL, CV ≤10%; 2 µL, CV≤5%; 10 µL, CV≤3%; >10 µL, CV≤3% Standard tube dispensing cassette: 5 µL, CV≤10%; 20 µL, CV≤1.5%; 100 µL, CV≤1%; >100 µL, CV≤1%
Dispensing Accuracy	Small tube dispensing cassette: 2 µL, ±10% (typical); 10 µL, ±5% (typical); >10 µL, ±5% (typical) Standard tube dispensing cassette: 5 µL, ±3%(typical); 20 µL, ±2% (typical); 100 µL, ±1% (typical); >100 µL, ±1% (typical)
Dispensing Speed	96-well plate: 10 µL in 3 sec.; 20 µL in 4 sec.; 100 µL in 10 sec. 384-well plate: 1 µL in 5 sec.; 5 µL in 5 sec.; 10 µL in 6 sec.; 20 µL in 9 sec. 1536-well plate: 1 µL in 14 sec.; 5 µL in 26 sec.
Dispensing Increments	Small tube dispensing cassette: 0.5 µL increments 0.5-50 µL Standard tube dispensing cassette: 5 µL increments 5-2500 µL
Dead Volume	<1 mL volume range 0.5-50 µL; <7 mL volume range >50 µL†
Interface	Serial RS-232, USB
Dimensions (W × D × H)	14 × 12.9 × 8.6 in. (35.5 × 33 × 22 cm)
Weight	9.1 kg (20.1 lbs.)
† Reagent recovery option	

Cat. No.	Description
5840300	100-240 V 50/60 Hz
5840310	With SMART option 100-240 V 50/60 Hz

Increase throughput with a RapidStak Automated Microplate Stacker

Thermo Scientific Multidrop 384 Reagent Dispenser

The Multidrop 384 Bulk Reagent Dispenser provides reliable microvolume reagent dispensing for pharmaceutical and biotechnology laboratories.

The Multidrop 384 reagent dispenser provides continuous high-speed dispensing of various liquids with excellent precision and robot compatibility for higher productivity.

Details

Multidrop 384 instrument dispenses a wide range of solutions into 96 and 384 well plates across 5 to 395 µL volume range.

- Precise dispensing with reproducible dispensing results
- High-speed dispensing for high assay throughput
- Easy setup with quick plate and volume selection
- Easy to integrate with different robotic setups for higher throughput

Convenient, autoclavable dispensing cassette

- 8-channel detachable, autoclavable dispensing cassette to ensure sterile conditions and avoid cross contamination
- All reagent lines can be backflushed into the reagent bottle, minimizing the loss of expensive reagents

Includes: One standard tube dispensing cassette (Cat. No. 24072670)

Warranty and Service Offering: One year

Recommended for: Assay development, primary and secondary screening, compound storage, genomics and proteomics research, cell based assays and ELISA assays

Increase throughput with a RapidStak Automated Microplate Stacker

Specifications	
Plate Types	96-, 384-well plates
Dispensing Volume Range	5 to 395 µL
Dispensing Precision	5 µL: CV≤10% (typical) 20 µL: CV≤1.5% (typical) 100 µL: CV≤1% (typical)
Dispensing Accuracy	5 µL: ±3% (typical) 20 µL: ±2% (typical) 100 µL: ±1% (typical)
Dispensing Speed	96-well plate: 20 µL in 5 seconds, 50 µL in 8 seconds 384-well plate: 20 µL in 20 seconds, 50 µL in 25 seconds
Dispensing Increments	5 µL increments
Dead Volume	<7 mL†
Interface	RS-232
Dimensions (W × D × H)	12.2 × 12.6 × 6.1 in. (31 × 32 × 15.5 cm)
Weight	6.2 kg (13.7 lbs.)
† Reagent recovery option	

Cat. No.	Description
5840150	220-240 V 50/60 Hz
5840157	100-120V 50/60Hz

Thermo Scientific Multidrop DW Reagent Dispenser

The Multidrop DW Reagent Dispenser is a high-speed reagent dispenser designed for repetitive dispensing of large volumes in pharmaceutical and biotechnology laboratories.

The Multidrop DW Reagent Dispenser releases various liquids into 96 standard and DW plates across the 20 to 995 µL volume range.

This dispenser accelerates larger scale assays by providing superior precision and accuracy for repetitive dispensing of large volumes.

Details

- Precise dispensing ensures high-quality assay results and reproducible data
- Wide volume range provides flexibility and increased speed in assays requiring larger volumes
- With quick plate and volume selection combined with easy maintenance, the Multidrop DW makes assay setup quick and easy

Convenient, autoclavable dispensing cassette

- Uses an 8-channel detachable and autoclavable dispensing cassette to deliver sterile conditions and to avoid cross contamination
- All reagent lines can be backflushed into the reagent bottle, minimizing the loss of expensive reagents

Recommended for: Cell based assays, compound storage, genomics and proteomics research, ELISA assays and microbiological tests

Includes: One standard tube dispensing cassette (Cat. No. 24072670)

Warranty: One year

Increase throughput with a RapidStak Automated Microplate Stacker

Specifications	
Plate Types	96-well plates; 96-deep well plates; 1.1 mL tubes in 96 tube rack; Micronic 96-place tube racks
Dispensing Volume Range	20 to 995 µL
Dispensing Precision	20 µL: CV≤1.5% (typical) 100 µL: CV≤1% (typical) 900 µL: CV≤0.5% (typical)
Dispensing Accuracy	20 µL: ±2% (typical); 100 µL: ±1% (typical); 900 µL: ±1% (typical)
Dispensing Speed	96-well plate: 20 µL in 5 seconds; 50 µL in 8 seconds; 300 µL in 26 seconds; 900 µL in 74 seconds
Dispensing Increments	5 µL increments
Dead Volume	<7 mL†
Interface	RS-232
Dimensions (W × D × H)	12.2 × 12.6 × 7.1 in. (31 × 32 × 18 cm)
Weight	6.2 kg (13.7 lbs.)
† Reagent recovery option	

Cat. No.	Description
5840177	100-120V 50/60 Hz
5840170	200-240V 50/60 Hz

Thermo Scientific Multidrop Combi, 384 and DW Dispensing Cassettes

Our comprehensive line of Multidrop Dispensing Cassettes offers optimal solutions for a wide volume range and a variety of reagents for the best performance and results.

The autoclavable Multidrop Dispensing Cassettes come with different tubing sizes, as well tip material and size. Choose between standard and small tube cassettes, or SMART versions that store dispensing lifetime data. Dispensing cassettes are available as single versions, 5-packs and 10-packs.

Standard tube dispensing cassette

Standard tube dispensing cassettes are designed to be used with Multidrop Combi, Multidrop 384 and Multidrop DW dispensers.

Details:

- Plastic cover structure, wide silicone tubing and polypropylene tip comb with 0.5 mm tip inner diameter
- Designed for volumes 5 µL and greater, and when used with Multidrop Combi Reagent Dispensers up to 2.5 mL
- Most suitable for dispensing volumes of 20 µL and greater
- Wide tubing allows high speed for dispensing of large volumes with the standard cassettes
- Standard tube cassettes are also available with longer tubing versions, ideal for automated systems where reagent vessels are remote from the instruments

Small Tube Dispensing Cassette

Small tube dispensing cassettes can be used with Multidrop Combi and Multidrop Micro reagent dispensers.

Details:

- Plastic cover structure, silicone tubing with small tubing diameter and polypropylene or metal tip with orifice 0.22 mm
- Tip structure and design optimized for efficient and reproducible dispensing of small volumes from 0.5 µL up to 50 µL
- Small tube dispensing cassettes are available with either plastic or metal tips to accommodate a variety of reagents
- Long small tube dispensing cassettes are ideally suited for use with automated systems. The eight channels are joined as a single tube, minimizing liquid resistance.

SMART dispensing cassettes

SMART dispensing cassettes are used with the Multidrop Combi SMART unit. These cassettes are equipped with a SMART information chip to store lifetime dispensing data for the cassette. When used with the Multidrop Combi SMART cassette version, the remaining usage time is displayed. SMART cassettes are available in standard and small tube versions, and are distinguished from normal cassette versions by an antenna tag.

Cat. No.	Description
24072670	Standard tube dispensing cassette
24072671	Standard tube dispensing cassette 5-pack
24072672	Standard tube dispensing cassette 10-pack
24072677	Long standard tube dispensing cassette (length of tubing 50-200 cm in 10 cm increments)
24070300	Dispensing cassette, aluminium covers (with 40 cm tubing set)
24070307	Special dispensing cassette, aluminium covers (length of tubing 50-200 cm in 10 cm increments)
24073290	Small tube plastic tips dispensing cassette
24073291	Small tube plastic tips dispensing cassette 5-pack
24073295	Small tube metal tip dispensing cassette
24073296	Small tube metal tip dispensing cassette 5-pack
24073293	Long small tube plastic tip dispensing cassette
24073298	Long small tube metal tip dispensing cassette
24072675	SMART Standard tube dispensing cassette (with 40 cm tubing set)
24072676	SMART Standard tube dispensing cassette 5-pack
24072678	SMART Long standard tube dispensing cassette
24073292	SMART Small tube plastic tip dispensing cassette
24073001	SMART Small tube plastic tip dispensing cassette 5-pack
24073297	SMART Small tube metal tip dispensing cassette
24073002	SMART Small tube metal tip dispensing cassette 5-pack

Thermo Scientific FILLit Software for Multidrop Reagent Dispensers

FILLit* Software is an easy-to-use tool for controlling Multidrop reagent dispensers.

FILLit Software provides advanced control and increased flexibility for the use of Multidrop reagent dispensers. The protocols can be built and deployed quickly for execution either directly from a PC or transferred into the instrument's memory.

Details

- Extensive plate list containing plates from a variety of microplate manufacturers
- Select and fill discrete wells (Multidrop Combi nL), rows (Multidrop Combi nL) or columns
- User-created protocols can be stored in the database for ongoing use or modification
- Protocols can also be downloaded to the instrument for stand alone use, or transferred from the Multidrop to the PC for further modifications

Multidrop Combi nL FILLit Software

- Pre-calibrated liquid types stored in the database allow quick selection at startup
- Adding new liquids to the database is easy with the calibration wizard
- Individual valve control allows dispensing into discrete wells

PC Requirements	
Operating System	Microsoft Windows* 2000 with Service Pack 4, Windows XP Professional with Service Pack 2 or Windows Vista 32-Bit Edition
RAM	1 GB
Drive	CD-ROM drive (or CD compatible DVD-ROM drive)
Monitor	XVGA monitor with 1024 × 768 resolution
Port	One serial or USB port available
Free Disk Space	0.5 GB
Browser	Microsoft Internet Explorer 6.0 (or greater) installed

Cat. No.	For Use with
5188020	Fillit Software Multidrop Combi nL
5188010	Fillit Software Multidrop Combi

Thermo Scientific Matrix WellMate Microplate Dispenser

The WellMate dispenser brings superior flexibility and cost-efficiency to microplate dispensing.

With a volume range of 1 to 2000 µL, the WellMate dispenser accommodates a wide selection of labware and improves cost efficiency with disposable, pre-sterilized and pre-calibrated tubing cartridges. Programming flexibility allows any user to operate the instrument, and the optional plug-and-play WellMate Stacker provides walk-away capability to meet a range of throughput requirements.

Details

- Manually adjustable dispensing head height and dispensing locations allow one instrument to accommodate virtually any 6, 12, 24, 48, 96 or 384-well microplate
- Programming options to dispense volumes from 1-2000 µL in increments of 1.0 µL
- Fluid flow can be manually reversed to recover valuable reagent contained in the lines
- The pre-sterilized, pre-calibrated tubing cartridges are economical enough to be disposable, yet rugged enough to be autoclaved for long-term use
- Allows sterile plate filling of cell culture media into 6, 12, 24, 48, 96 or 384 tissue culture plates
- The WellMate unit can be placed in a dark room for dispensing light-sensitive compounds

Recommended for: Addition of bacteria, yeast, buffers, diluents, enzymes, substrates, and ligands, labeled compounds, including fluorophores and radio labeled compounds, microbeads for assays such as LOCI or loading combichem plates, viscous solutions including scintillation fluid or glycerol/sucrose solutions

Warranty: One year

Specifications	
Plate type	6- to 384- well plates
Dispensing Volume Range	1 to 2000 µL
Dispensing Precision	±2.0% or 1.0 µL (standard bore cartridge) ±2.0% or 0.25 µL (small bore cartridge) ±2.0% or 0.25 µL (stainless steel cartridge)
Dispensing Accuracy	±2.0% or 1.0 µL (standard bore cartridge) ±2.0% or 0.25 µL (small bore cartridge) ±2.0% or 0.25 µL (stainless steel cartridge)
Dispensing Speed	96-well plate: 10 µL: 4.5 s; 50 µL: 8.7 s; 100 µL: 13.2 s 384-well plate: 5 µL: 9 s; 10 µL: 11 s; 50 µL: 26.5 s
Interface	Serial RS-232, OCX
Dimensions (W × D × H)	14.5 × 12.0 × 8.5 in. (36.8 × 30.5 × 21.6 cm)
Weight	11 kg (24 lbs.)

Cat. No.	Description
20110001	WellMate Microplate Dispenser

Thermo Scientific Matrix WellMate Disposable Tubing Cartridges

Disposable Tubing Cartridges for the WellMate dispenser offer a convenient solution for a variety of liquid types.

Select from a wide variety of tubing cartridges to dispense everything from sensitive cellular materials to high vapor pressure fluids.

Compatible with WellMate dispensers, these pre-sterilized tubing cartridges can be quickly and easily replaced, eliminating the need for service or calibration.

Details

- Disposable, pre-sterilized, pre-calibrated tubing
- Cartridges can be quickly and easily replaced, eliminating the need for service or calibration
- Standard-bore nozzle: For volumes above 20 µL and 6 to 96-well plate filling
- Small-bore nozzle: For lower volume (1.0 µL and above) applications
- Stainless steel, PTFE-coated: For use with viscous fluids, 6 to 384-well dispensing, and low-profile plates

Includes: Five cartridges per case

Cat. No.	Description
Tubing Assemblies	
201-30001	Standard Bore
201-30002	Small Bore
201-30003	Stainless Steel, PTFE-Coated
Adapter	
201-40002	Tubing Cartridge Adapter

Thermo Scientific Matrix WellMate Stacker Base Unit

The WellMate stacker base unit can dramatically increase the throughput of microplate dispensing.

This stacker is the perfect add-on to the WellMate base unit, increasing throughput, walk-away time and the efficiency of many microplate dispensing procedures.

Details

- When combined with short or tall chimneys, enables walk-away capability for virtually any throughput level
- Accommodates low profile, standard, and deep well height plates
- All WellMate stackers are field upgradable

Requires: Thermo Scientific Matrix WellMate Base Unit
Warranty: One year
Certifications: CE

Cat. No.	Description
201-20001	WellMate Stacker
501-90750	Annual Service Contract for WellMate Stacker

Base Unit

Thermo Scientific Matrix PlateMate Plus/WellMate Stacker Chimneys

PlateMate Plus/WellMate Stacker chimneys provide a complete solution with the WellMate Stacker Base Unit and PlateMate Plus.

Details

Tall Chimney Stackers

- Each chimney accommodates up to 50 standard height plates
- Compatible with deep well and low profile plates

Short Chimney Stackers

- Each chimney accommodates up to 25 standard height plates
- Compatible with deep well and low profile plates
- The WellMate dispenser, stacker and short chimney combinations fit into most standard-sized biological safety cabinets

Requires: PlateMate Plus Base Unit or WellMate Stacker Base Unit

Cat. No.	Description
501-30005	Tall (50 plate capacity)
501-30006	Short (25 plate capacity)

Thermo Scientific Matrix Hydra II Liquid Handling System

The Hydra II syringe, fixed tip-based automated benchtop liquid handling system operates with push-button ease.

The Hydra II benchtop 96-channel liquid handler is compact and capable of automating simple pipetting tasks, including low volume and viscous sample transfers with the single press of a button. It utilizes syringe-based technology to accurately and precisely dispense even the most sensitive solutions.

Details

- Syringe-based automatic pipetting enables 100 nL - 290 µL pipetting volume range
- Choice of two 96-format volume range syringe dispense heads allows unit to be used with any 96- or 384-microplate format, including standard, low profile, deep well and standard footprint tube racks
- Precise speed control: Aspirate and dispense speeds can be optimized and independently set based on fluid type or to facilitate optimal performance
- Compact size allows use on any benchtop or in a standard enclosure
- Wash pump accommodates two wash solutions for critical wash procedures

Programming Flexibility

- Can be programmed utilizing easy-to-read, four-line LCD display, or with intuitive ControlMate software
- ControlMate software, which is used consistently for all Thermo Scientific Matrix automated liquid handling platforms, is license-free and downloadable from controlmate.net
- Available ControlMate OLE package provides developers with an ActiveX automation interface for integrated use

Syringe/Needle Assemblies for Precise Low-Volume Dispensing

- Syringe barrels are made from borosilicate glass for excellent chemical capability
- Inner chambers are precision-machined and highly polished to provide leak-free operation
- Each syringe tip features three points of sealed contact for long-lasting performance

Includes: Hydra II base unit, single microplate stage, power cord, PC communication cable, RS232 to USB connection and user manual

Required Accessories: Tip wash station and pump module

Warranty and Service Offering: One year

Certifications: CE marked

Recommended for:

- Any 96- or 384-channel low-volume positive displacement pipetting procedure
- Dispensing of solvents
- Nucleic acid preps
- PCR setup
- Plate-to-plate transfers
- Reagent addition
- Reformatting into high-density plates

Cat. No.	Description	Accuracy
109611	96 Base Unit, 100 µL, with Duraflex Needles	±2.5% or 0.01 µL
109621	96 Base Unit, 290 µL, with Duraflex Needles	±2.5% or 0.05 µL

Thermo Scientific Matrix Hydra DT Pipetting Workstation

The Hydra* DT Pipetting Workstation is a compact, automated liquid handler that is compatible with the complete line of disposable Thermo Scientific Matrix D.A.R.T.s tips.

The Hydra DT benchtop 96-channel liquid handler is compact and capable of automating routine pipetting tasks, including plate stamping, reformatting and sample transfers with the single press of a button. The Hydra DT is compatible with our extensive range of Matrix D.A.R.T.s* (Disposable Automation Research Tips), providing excellent application flexibility with easy tip changing. Its extensive volume range accommodates multiple pipetting tasks within one laboratory.

Details

- Disposable tip-based liquid handler with a variety of disposable tip options
- Combined volume range from 0.5 µL to 300 µL
- 96 simultaneous transfers with superior accuracy and precision, with zero carryover
- Compact design requires minimal bench or hood space
- Intuitive ControlMate software makes the system easy to use
- Touch pad programming option eliminates the need for a PC
- Simple tip clamp requires only 5 lb. of force and can be actuated with one hand
- Easy touch pad operation reduces repetitive motion strain
- Compatible with Matrix D.A.R.T.s tips
- Compatible with standard biological hoods; perform biological assays with ease and efficiency using sterile or sterile-filtered Matrix D.A.R.T.s tips
- Dynamic volume range with simple tip changes; the 100 µL units are compatible with 0.5 to 30 µL tips, and 1.0 to 100 µL tips on the same instrument
- Includes: Hydra DT base unit with single position stage, ControlMate software, power cable, user manual, PC communication cable and RS323 to USB adapter

Compatible with: Thermo Scientific Matrix D.A.R.T.s tips; ControlMate Software
Warranty and Service Offering: One year
Certifications: CE marked

Recommended for: Low throughput pipetting procedures; genomics, proteomics, cell based assays, IC50, EC50, microplate stamping, low volume microplate filling and microplate reformatting.

Cat. No.	Description
1096-DT-100	Hydra DT Base Unit; 96 Channel; 0.5-100 µL
1096-DT-300	Hydra DT Base Unit; 96 Channel; 5-300 µL

Thermo Scientific Versette Pipetting Workstation

The ultimate in versatility and scalability, our Versette* automated liquid handler is ideal for laboratories that want to move from handheld pipetting to automated handling.

The Versette automated liquid handling system is compact, user-scalable, and offers many pipetting options. It features 19 self-interchanging and quick-swap, single- through 384-channel pipetting heads, and a total volume range of 0.1 to 1250 µL. With a compact modular design, the Versette liquid handler offers end users a choice between a two- or six-position stage, and two user-friendly programming options.

Details

- Compatible with 19 interchangeable pipetting heads, ranging from single- to 384-channels
- Pipetting heads are available in disposable and fixed tip formats
- Total volume range from 0.1 to 1250 µL
- All pipetting heads include RFID tags to self-identify, track usage and store service information

Consumables Designed to Optimize Liquid Handling Performance

- Single-, 8-, and 12-channel pipetting tools utilize Thermo Scientific Versette ClipTip automation tips that securely seal to the pipetting head
- Versette ClipTip automation tips require low insertion and ejection force, extending the life of the instrument's components
- 96- and 384-channel pipetting heads utilize Thermo Scientific D.A.R.T.s* tips
- D.A.R.T.s tips utilize a unique surface seal design that delivers accurate and precise pipetting by forming an even seal across all pipetting channels

Options for Two- or Six-position Deck

- Two user-upgradeable labware capacity options are available for simple liquid handling procedures, medium throughput, and use as an integrated component

Space Matters

- Compact design allows it to fit on standard laboratory benches and into select biological hoods
- Two- and six-position units are equipped with a safety shield
- The six-position stage uses a dual-level design to further minimize space requirements

User-Friendly Programming Options

- Compatible with an onboard GUI interface or PC-based ControlMate* software
- Quickly and easily create or edit simple or complex pipetting procedures
- Ideal for procedures as diverse as automated serial dilution and hit picking to 96/384 plate replications

Recommended for: Can be used in many applications across academia, pharma and biotech, including drug discovery, cell-based, genomic and proteomic procedures. Ideal for life science researchers in low- to high-throughput laboratories who are currently performing handheld pipetting tasks but want to move to automation, or customers building integrated systems that require liquid handling.

Warranty: One year

Cat. No.	Description	Dimensions
65001BS	Versette base unit; requires pipetting head housing, stage, pipetting head(s) and accessories separately available	Included below with stage dimensions
650-02-SMC	Single- and multi-head housing assembly for use with single-, 8-, 12-channel pipetting heads	Included below, individual weight 30 lb. (13.6 kg)
650-02-NTC	96- and 384- head housing assembly for use with 96- and 384-channel pipetting heads	Included below, individual weight 40 lb. (18.1 kg)
650-03-TPS	Two-position stage, guarding included	26.6" × 21.4" × 16.1" (67.6 × 54.4 × 40.9 cm); 20 lb. (9.1 kg)
650-03-TPSR	Two-position robotic-friendly stage	26.6" × 21.4" × 16.1" (67.6 × 54.4 × 40.9 cm); 15 lb. (6.8 kg)
650-03-SPS	Six-position stage, guarding included (can also be removed for robotic use)	26.6" × 21.7" × 26.7" (67.6 × 55.1 × 67.8 cm); 50 lb. (22.7 kg)

Thermo Scientific Versette Pipetting Heads

Versette Pipetting Heads are available in disposable and fixed-tip formats with a total volume range of 0.1 µL to 1250 µL.

All pipetting heads include RFID tags to self-identify for tracking usage and service information.

Details

- Single- through 384-channel pipetting options
- Disposable and fixed tip options
- Pipetting heads are user interchangeable
- Single-, 8- and 12-channel models are self interchanging and stored on instrument stage
- 96- and 384-channel models require manual swap that takes only minutes
- Thermo Scientific Matrix PlateMate pipetting heads can be upgraded to be compatible with Versette liquid handlers

Warranty: One year

Cat. No.	Volume Range	Accuracy	Precision
Single Channel Air Displacement Pipetting Head			
650-07-S12	0.5 to 12.5 µL	1.0% or 0.42 µL	0.6% or 0.023 µL
650-07-S30	2 to 30 µL	1.0% or 0.084 µL	0.5% or 0.048 µL
650-07-S125	10 to 125 µL	1.0% or 0.334 µL	0.4% or 0.14 µL
650-07-S300	20 to 300 µL	0.9% or 0.72 µL	0.3% or 0.3 µL
650-07-S1250	100 to 1250 µL	0.8% or 2.5 µL	0.2% or 0.8 µL
8-Channel Air Displacement Pipetting Head			
650-07-M812	0.5 to 12.5 µL	2.0% or 0.084 µL	1.2% or 0.063 µL
650-07-M830	2.0 to 30 µL	2.0% or 0.168 µL	1.0% or 0.096 µL
650-07-M8300	20 to 300 µL	1.0% or 1.44 µL	1.0% or 0.096 µL
12-Channel Air Displacement Pipetting Head			
650-07-M1212	0.5 to 12.5 µL	2.0% or 0.084 µL	1.2% or 0.063 µL
650-07-M1230	2 to 30 µL	2.0% or 0.168 µL	1.0% or 0.096 µL
650-07-M12300	20 to 300 µL	1.0% or 1.44 µL	1.0% or 0.096 µL
96-Channel Air Displacement Pipetting Head			
650069630	0.5 to 30 µL	2.0% or 0.15 µL	1.5% or 0.1 µL
6500696300	5 to 300 µL	2.0% or 1.0 µL	1.5% or 0.75 µL
384-Channel Air Displacement Pipetting Head			
6500638430	0.5 to 30 µL	2.0% or 0.15 µL	1.5% or 0.1 µL
65006384100	1 to 100 µL	2.0% or 0.5 µL	1.5% or 0.25 µL
96-Channel Positive Displacement Piercing Pipetting Head			
650069650SS†	0.1 to 50 µL	2.5% or 0.01 µL	1.5% or 0.2 µL
96-Channel Positive Displacement Pipetting Head			
650069650DF††	0.1 to 50 µL	2.5% or 0.01 µL	1.5% or 0.2 µL
384-Channel Positive Displacement Pipetting Head			
6500638450SS‡	0.1 to 50 µL	2.5% or 0.01 µL	1.5% or 0.2 µL
6500638450DF††	0.1 to 50 µL	2.5% or 0.01 µL	1.5% or 0.2 µL

† Stainless-steel Ceramic Coated
†† Duraflex
‡ Stainless-steel PTFE Coated

Thermo Scientific Versette Accessories

Versette Accessories are for use with the Versette automated liquid handling system, enabling an effective solution.

Warranty: One year

Cat. No.	Description
650-05-96TTW	96 Channel Tip Wash Station, Tall Height
650-05-384TTW	384 Channel Tip Wash Station, Tall Height
650-08-VMJP	Vacuum Manifold Kit, 110V
650-08-VMNA	Vacuum Manifold Kit, 100V
650-08-VMEU	Vacuum Manifold Kit, 220V
650-08-PRC	Piercing Manifold Kit
650-08-1.5ML-L	1.5 mL Lidded Tube and Vial Adapter
650-08-2ML	2.0 mL Tube and Vial Adapter
650-08-8ML	8.0 mL Tube and Vial Adapter
650-08-BCR	Linear Barcode Reader
650-08-13MM	Tube Adapter, 13 mm Vial
650-08-WSTE	Versette ClipTip Automation Tips Disposal Chute and Container
650-04-PUMP	Pump module 21.2" × 8.7" × 8.7" (54.6 × 22.1 × 22.1cm); 22 lb. (10 kg)

Ask your representative about integrating the Thermo Scientific Orbitor RS Microplate Mover

Thermo Scientific Versette ClipTip Automation Tips

With a unique interface that locks the tip onto the Versette automated liquid handling system, Versette ClipTip Automation Tips provide stable, straight mounting every time. Each tip has a clasp or 'clip' that locks in place to ensure an effective seal, and will only release when mechanically ejected.

Details

- Unique design: On or Off only – tips lock in place, providing a secure fit that prevents loose, uneven or leaky tips
- Compatible with single-, 8-, and 12- channel Versette pipetting head options
- Range of versatile tips with three sizes for volumes: 1250 µL, 300/125 µL and 30/12.5 µL

Tip Volume	Range	Non-Sterile	Sterile	Sterile, Filtered	Single Channel Air Displacement Pipetting Head	8-Channel Air Displacement Pipetting Head	12-Channel Air Displacement Pipetting Head
12.5/30 µL	0.5-12.5 µl	5606	5607	n/a	650-07-S12	650-07-M812	650-07-M1212
12.5 µL	2-30 µL	5606	5607	5608	650-07-S30	650-07-M830	650-07-M1230
30 µL	2-30 µL	5606	5607	5618	650-07-S30	650-07-M830	650-07-M1230
125/300 µL	10-125 µL	5706	5707	5708	650-07-S125	650-07-M8300	650-07-M12300
125/300 µL	20-300 µL	5706	5707	5708	650-07-S300	650-07-M8300	650-07-M12300
1250 µL	100-1250 µL	5806	5807	5808	650-07-S1250	n/a	n/a

All tips packed 10 racks of 96. Compatible with tubes, 96- and 384-well plates. 1250 µL tips packed 8 racks of 96.

Thermo Scientific Matrix D.A.R.T.s Tips

Matrix D.A.R.T.s (Disposable Automation Research Tips) have been designed to provide the ultimate performance in automated pipetting.

Unlike conventional automation tips, Matrix D.A.R.T.s tips are provided in disposable, rigid magazines that bond onto the pipetting heads by sealing against a silicone pad. This forms a definitive seal that minimizes tip-to-tip height variations and eliminates static interactions, delivering consistent dispensing into the bottom of microplate wells.

By creating an extremely consistent seal, Matrix D.A.R.T.s tips offer unmatched consistency when aspirating and dispensing into the bottom of microplate wells.

Details

- Compatible with the Versette, Hydra DT, PlateMate 2x3 and PlateMate Plus Automated Pipetting Systems
- Stepped-body design minimizes volume displacement and provides tip straightness for better well access
- Highly polished molds and cores ensure low liquid retention
- Small internal tip orifice provides better small volume droplet formation, resulting in optimal accuracy and precision
- Sterile, sterile filtered, wide-bore and extended-length tip options available, offering the flexibility to choose tips for any application
- Thorough inspection for proper formation as well as straightness eliminates defects
- Unique face seal design provides consistent tip-to-tip height for precise low volume dispensing
- Entire assembly can be quickly removed and replaced, eliminating extra handling of the tips that can cause damage or contamination

Includes: 20 magazines per case

Cat. No.	Description	Volume [Tip]	Sterile	Packaging
5586	96 Tips	30 µL	No	96 Tips/Rack, 20 Racks/Case
5587	96 Tips	30 µL	Yes	96 Tips/Rack, 20 Racks/Case
5506	96 Tips, Extended Length	30 µL	No	96 Tips/Rack, 20 Racks/Case
5507	96 Tips, Extended Length	30 µL	Yes	96 Tips/Rack, 20 Racks/Case
5526	96 Tips	100 µL	No	96 Tips/Rack, 20 Racks/Case
5527	96 Tips	100 µL	Yes	96 Tips/Rack, 20 Racks/Case
5516	96 Tips	300 µL	No	96 Tips/Rack, 20 Racks/Case
5517	96 Tips	300 µL	Yes	96 Tips/Rack, 20 Racks/Case
5546	96 Tips, Extended Length, Wide Bore	300 µL	No	96 Tips/Rack, 20 Racks/Case
5547	96 Tips, Extended Length, Wide Bore	300 µL	Yes	96 Tips/Rack, 20 Racks/Case
5536	96 Tips, Extended Length	300 µL	No	96 Tips/Rack, 20 Racks/Case
5537	96 Tips, Extended Length	300 µL	Yes	96 Tips/Rack, 20 Racks/Case
5301	384 Tips	12.5 µL	No	384 Tips/Rack, 10 Racks/Case
5302	384 Tips	12.5 µL	Yes	384 Tips/Rack, 10 Racks/Case
5416	384 Tips, Extended Length	30 µL	No	384 Tips/Rack, 20 Racks/Case
5417	384 Tips, Extended Length	30 µL	Yes	384 Tips/Rack, 20 Racks/Case
5316	384 Tips	30 µL	No	384 Tips/Rack, 20 Racks/Case
5317	384 Tips	30 µL	Yes	384 Tips/Rack, 20 Racks/Case
5326	384 Tips	100 µL	No	384 Tips/Rack, 20 Racks/Case
5327	384 Tips	100 µL	Yes	384 Tips/Rack, 20 Racks/Case
5321	384 Tips	100 µL	No	384 Tips/Rack, 10 Racks/Case
5322	384 Tips	100 µL	Yes	384 Tips/Rack, 10 Racks/Case

Thermo Scientific Matrix Filtered D.A.R.T.s Tips

Matrix Filtered D.A.R.T.s (Disposable Automation Research Tips) feature a stepped body design that minimizes volume displacement and provides better well access.

Unlike conventional automation tips, our Matrix filtered D.A.R.T.s tips are provided in disposable rigid magazines and bond onto the pipetting heads by being squeezed against a silicone pad. This forms a definitive seal that minimizes tip-to-tip height variations, delivering consistent dispensing into the bottom of microplate wells.

Details

- Compatible with Versette, Hydra DT, PlateMate 2x3, and PlateMate Plus systems
- Stepped body design minimizes volume displacement and ensures tip straightness for better well access
- Small internal tip orifice provides better small-volume droplet formation, resulting in optimal accuracy and precision
- Filter, wide-bore, and extended-length tip options available; offers the flexibility to choose tips for any application
- 100% inspection ensures the tips are free of defects; inspected for proper formation as well as straightness
- Unique face seal design provides consistent tip-to-tip height for precise low volume dispensing
- Disposable magazine eliminates the need to flip tips out of a traditional box and into a metal carrier
- Entire assembly can be quickly removed and replaced; eliminates extra handling of the tips that can cause damage or contamination

Cat. No.	Description	Volume [Tip]	Sterile	Packaging
5508	96 Tips, Extended Length	30 µL	Yes	96 Tips/Rack, 20 Racks/Case
5588	96 Tips	30 µL	Yes	96 Tips/Rack, 20 Racks/Case
5526	96 Tips	100 µL	Yes	96 Tips/Rack, 20 Racks/Case
5518	96 Tips	300 µL	Yes	96 Tips/Rack, 20 Racks/Case
5538	96 Tips, Extended Length	300 µL	Yes	96 Tips/Rack, 20 Racks/Case
5548	96 Tips, Extended Length, Wide Bore	300 µL	Yes	96 Tips/Rack, 20 Racks/Case
5318	384 Tips	30 µL	Yes	384 Tips/Rack, 20 Racks/Case
5418	384 Tips, Extended Length	30 µL	Yes	384 Tips/Rack, 20 Racks/Case
5328	384 Tips	100 µL	Yes	384 Tips/Rack, 20 Racks/Case

Thermo Scientific PocketTip D.A.R.T.s Automation Tips

PocketTip D.A.R.T.s (Disposable Automation Research Tips) offer low-volume transfer capability with existing Thermo Scientific automated liquid handling equipment, ideal for compound screening procedures.

PocketTip D.A.R.T.s enable the transfer between 50-250 nL of sample volume using Versette, PlateMate and Hydra DT liquid handling instruments. These low-volume transfers reduce the cost of reagents, labware and sample preparation while improving data quality by eliminating intermediate pipetting steps and providing soft in-tip mixing.

Details

- Available in 96- and 384- channel format with 50, 100 and 250 nL pocket sizes
- Sterile format is available for sensitive liquid handling procedures or operations that require sterility
- Enables existing Thermo Scientific automated liquid handlers to accommodate low-volume dispensing for compound screening procedures
- Requires only minor procedural adjustments to Versette, PlateMate and Hydra DT instrumentation
- By transferring nanoliter volumes directly to assay plates, timely aqueous dilution steps that can cause precipitation and result in unreliable data are eliminated
- Sample and assay materials are gently combined with soft in-tip mixing, removing the need for offline procedures and improving data quality with thorough mixing that will not damage sensitive material
- Consistent accuracy and precision are tightly controlled during the molding process
- Purity and straightness validation is also performed on compatible instrumentation to ensure only the highest quality
- With instrument compatibility range starting from the Versette, Hydra DT on-the-fly dose response curves or assay development can be set up with simple Hydra DT programming
- Higher throughput needs can be met with the Versette, PlateMate 2x3 and CataLyst Express, or PlateMate Plus instruments
- Automation sales specialists are available to assist with instrument programming and modifications, as well as with instrument validation regarding any Thermo Scientific automated liquid handler

Cat. No.	Volume [Tip]	Sterile	Packaging
5696-100	100 nL	No	Racks, 20 × 96
5696-250	250 nL	No	Racks, 20 × 96
5696-50	50 nL	No	Racks, 20 × 96
5697-100	100 nL	Yes	Racks, 20 × 96
5697-250	250 nL	Yes	Racks, 20 × 96
5697-50	50 nL	Yes	Racks, 20 × 96
5756-100	100 nL	No	Racks, 20 × 384
5756-250	250 nL	No	Racks, 20 × 384
5756-50	50 nL	No	Racks, 20 × 384
5757-100	100 nL	Yes	Racks, 20 × 384
5757-250	250 nL	Yes	Racks, 20 × 384
5757-50	50 nL	Yes	Racks, 20 × 384

Thermo Scientific Matrix D.A.R.T.s Tip Transfer Tool

The Matrix D.A.R.T.s Tip Transfer Tool simplifies operations and increases efficiency when loading Matrix D.A.R.T.s tips into serial dilution or custom configuration magazines used with the Thermo Scientific Versette, PlateMate Plus, PlateMate 2 x 3, and Hydra DT.

Using this tool to transfer Matrix D.A.R.T.s tips from a magazine into serial dilution or custom magazines is fast and efficient. An entire row or column can be transferred in one step.

The tool supports a variety of tip configurations on Thermo Scientific automated liquid handling instruments. It simplifies and increases efficiency when loading Matrix D.A.R.T.s into serial dilution or custom configuration magazines, and can be easily modified to work with either 96- or 384-format Matrix D.A.R.T.s.

Details

- Compatible with 96- and 384-format Matrix D.A.R.T.s tips, the tool is easily modified to work with either one
- Supports a variety of tip configurations on Thermo Scientific Versette, PlateMate and Hydra DT instruments
- Simply arrange the 96- or 384-tip fittings into desired configuration, such as 4.5 mm or 9 mm spacing
- Easy assembly offers fast swapping between 96- and 384-format tip fittings
- Operates like a pipetter by picking up tips on tip fittings, and using the plunger to eject tips into serial dilution or custom-configured magazine
- The tool is lightweight and requires low force ejection for easy tip transfers

Includes: Transfer tool, tip fittings for 96- and 384-format, and two stripper plates

Part Number	Description
501-30045	Tip Transfer Tool; Matrix DARTs
501-30046	Tip Transfer Tool Fittings; 96 channel
501-30047	Tip Transfer Tool Fittings; 384 channel

Thermo Scientific Matrix Disposable Automation Reservoirs

Matrix Disposable Automation Reservoirs feature the same shape and dimensions as standard microplates, and are designed to reduce reagent waste.

Now you have the flexibility to handle reagents on virtually any automated liquid handler. Hydrophilic surface treatment results in a lessened meniscus, allowing the liquid to spread out evenly along the reservoir bottom. The result: Less liquid is needed to cover the bottom and allows access to the liquid by all pipette tips.

With the same dimensions as standard microplates, these disposable reservoirs can be used in plate handlers or stackers. The removable splash baffles prevent reagents from splashing out when being moved on robotic decks. They are compatible with virtually any automated liquid handler.

Details

- Economical and disposable, they eliminate the risk of cross-contamination and the inconvenience of washing and autoclaving
- Standard microplate dimensions; can be used in plate handlers or stackers
- Built-in grooves in reservoir bottom reduce reagent waste and allow consistent aspiration of minimal amounts of reagent
- Hydrophilic surface allows the liquid to spread out evenly, so minimal reagent is needed to cover reservoir bottom
- Polypropylene construction offers excellent chemical resistance
- Individually wrapped reservoirs stay sterile until ready for use; no need to autoclave
- Built-in pour spout allows easy emptying of reagents

Removable Splash Baffles

- Prevent reagents from splashing out when being moved on robotic decks
- Enables reservoirs to be moved faster, and to be filled closer to the top with reagent
- Baffles can be removed to increase reservoir's capacity

Cat. No.	Description	Mfr. No.
Nonsterile		
1064058	96 Channel	1064058
1064056	96 Channel, Deepwell	1064056
1064057	384 channel	1064057
Sterile, Individually Wrapped		
1064158	96 Channel	1064158
1064156	96 Channel, Deepwell	1064156
1064157	384 Channel	1064157

Molecular BioProducts BioRobotix ART Filter Tips for Automated Workstations

Molecular BioProducts BioRobotix ART Filter Tips include a filter that prevents contaminating liquids and aerosols from being drawn into your workstation.

These sterile tips prevent contaminating liquids and aerosols from being drawn into your workstation, helping to maintain integrity of samples and reducing the risk of cross-contamination.

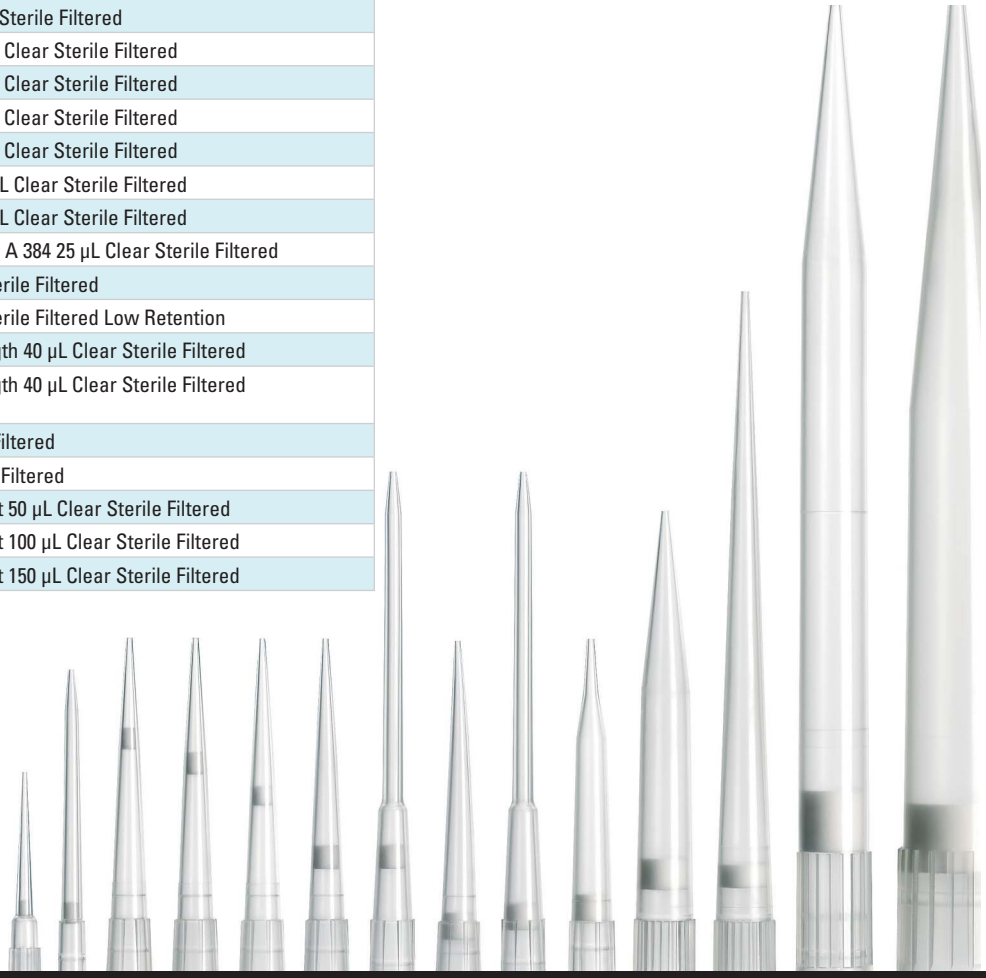
Designed for maximum accuracy and repeatability, BioRobotix ART filter pipette tips are available in two colors: Natural (clear) and black (liquid sensing). Constructed of premium-grade virgin polypropylene, all tips are rigorously tested on the workstations for which they were designed.

Details

- Compatible with a wide range of automated workstations
- Designed for maximum accuracy and repeatability
- Available in two colors: Natural (clear) and black (liquid sensing)
- Constructed of premium-grade, virgin polypropylene
- Tips are rigorously tested on the workstations for which they were designed

Cat. No.	Description – Validated Workstations
Black	
901-011	Tecan 10 µL Conductive Sterile Filtered
902-011	Tecan 50 µL Conductive Sterile Filtered
903-011	Tecan 175 µL Conductive Sterile Filtered
903-011G	Tecan 175 µL Conductive Sterile Filtered Wide Bore
903-033	Tecan 175 µL Conductive Filtered Econopack
904-011	Tecan 1000 µL Conductive Sterile Filtered
904-011G	Tecan 1000 µL Conductive Sterile Filtered Wide Bore
904-013	Tecan 1000 µL Conductive Sterile Filtered Econo Pack
918-011	Beckman Biomek FX SPAN-8 20 µL Conductive Sterile Filtered
919-011	Beckman Biomek FX SPAN-8 130 µL Conductive Sterile Filtered
951-011	Qiagen 250 µL Conductive Sterile Filtered
953-011	Qiagen 1100 µL Conductive Sterile Filtered
953-011G	Qiagen 1100 µL Conductive Sterile Filtered Wide Bore

Cat. No.	Description – Validated Workstations
Natural	
901-021	Tecan 10 µL Clear Sterile Filtered
902-021	Tecan 50 µL Clear Sterile Filtered
903-021	Tecan 175 µL Clear Sterile Filtered
904-021	Tecan 1000 µL Clear Sterile Filtered
906-021	Tecan Te-MO 50 µL Clear Sterile Filtered
907-021	Tecan Te-MO 100 µL Clear Sterile Filtered
908-021	Tecan Te-MO 150 µL Clear Sterile Filtered
912-021	Beckman Biomek FX 10 µL Clear Sterile Filtered
915-021	Beckman Biomek 20 µL Clear Sterile Filtered
915-021-05	Beckman Biomek 20 µL Clear Sterile Filtered Low Retention
916-021	Beckman FX Extended Length 40 µL Clear Sterile Filtered
916-021-05	Beckman FX Extended Length 40 µL Clear Sterile Filtered Low Retention
917-021	Beckman Biomek 130 µL Clear Sterile Filtered
917-021-05	Beckman Biomek 130 µL Clear Low Retention
917-021G	Beckman Biomek 130 µL Clear Wide Bore
918-021	Beckman Biomek FX 20 µL Clear Sterile Filtered
918-021-05	Beckman Biomek FX SPAN-8 20 µL Clear Sterile Filtered Low Retention
919-021	Beckman Biomek FX 130 µL clear Sterile Filtered
919-021-05	Beckman Biomek FX 130 µL Clear Sterile Filtered Low Retention
919-021G	Beckman Biomek FX 130 µL Clear Sterile Filtered Wide Bore
920-021	Caliper Zymark 50 µL Clear Sterile Filtered
921-021	Caliper Zymark 80 µL Clear Sterile Filtered
923-021	Caliper Zymark 100 µL Clear Sterile Filtered
925-021	PerkinElmer Plate Trak 20 µL Clear Sterile Filtered
925-021-05	PerkinElmer Plate Trak 20 µL Clear Sterile Filtered
927-021	PerkinElmer Plate Trak 50 µL Clear Sterile Filtered
927-021-05	PerkinElmer Plate Trak 50 µL Clear Sterile Filtered
929-021	PerkinElmer Plate Trak 235 µL Clear Sterile Filtered
929-021-05	PerkinElmer Plate Trak 235 µL Clear Sterile Filtered
931-021	PerkinElmer CCS/FLIPR Type A 384 25 µL Clear Sterile Filtered
935-021	Beckman 384 25 µL Clear Sterile Filtered
935-021-05	Beckman 384 25 µL Clear Sterile Filtered Low Retention
938-021	Beckman 384 Extended Length 40 µL Clear Sterile Filtered
938-021-05	Beckman 384 Extended Length 40 µL Clear Sterile Filtered Low Retention
951-021	Qiagen 250 µL Clear Sterile Filtered
953-021	Qiagen 1100 µL Clear Sterile Filtered
984-021	Biotek Precision SBS Format 50 µL Clear Sterile Filtered
985-021	Biotek Precision SBS Format 100 µL Clear Sterile Filtered
986-021	Biotek Precision SBS Format 150 µL Clear Sterile Filtered



Molecular BioProducts BioRobotix Pipet Tips, Standard, Black

Molecular BioProducts BioRobotix standard black pipette tips are constructed of high quality carbon-impregnated polypropylene for liquid sensing.

Designed for maximum accuracy, repeatability and the ability to detect liquids, BioRobotix black polypropylene tips are compatible with a variety of liquid sensing automated workstations. Constructed of premium-grade virgin polypropylene with embedded carbon, all tips are rigorously tested on the systems for which they were designed.

Details

- Compatible with a wide range of liquid-sensing automated workstations from multiple vendors
- Black (liquid-sensing) tips are designed for maximum accuracy, repeatability and liquid-sensing capability
- Constructed of premium-grade, carbon-embedded virgin polypropylene
- Tips are rigorously tested on the systems for which they were designed

Cat. No.	Description – Validated Workstations
901-251	Tecan 20 µL Conductive Sterile
901-252	Tecan 20 µL Conductive Non Sterile
901-253	Tecan 20 µL Conductive Econo Pack
902-251	Tecan 50 µL Conductive Sterile
902-252	Tecan 50 µL Conductive Non Sterile
902-253	Tecan 50 µL Conductive Econo Pack
903-033	Tecan 175 µL Conductive Filtered Econopack
903-251	Tecan 200 µL Conductive Sterile
903-251G	Tecan 200 µL Conductive Sterile Wide Bore
903-252	Tecan 200 µL Conductive Non Sterile
903-252G	Tecan 200 µL Conductive Wide Bore Non Sterile
903-253	Tecan 200 µL Conductive Non Sterile Econo Pack
904-251	Tecan 1000 µL Conductive Sterile
904-251G	Tecan 1000 µL Conductive Sterile Wide Bore
904-252	Tecan 1000 µL Conductive Non Sterile
904-252G	Tecan 1000 µL Conductive Wide Bore
904-253	Tecan 1000 µL Conductive Econo Pack
916-251	Beckman FX Extended Length 50 µL Conductive Sterile
916-252	Beckman FX Extended Length 50 µL Conductive Non Sterile
918-251	Beckman Biomek FX SPAN-8 20 µL Conductive Sterile
918-252	Beckman Biomek FX SPAN-8 20 µL Conductive Non Sterile
919-251	Beckman Biomek FX SPAN-8 250 µL Conductive Sterile
919-252	Beckman FX SPAN-8 250 µL Conductive Non Sterile
951-251	Qiagen 300 µL Conductive Sterile
951-252	Qiagen 300 µL Conductive Non Sterile
951-252G	Qiagen 300 µL Conductive Wide Bore
951-253	Qiagen 300 µL Conductive Econo Pack
953-251	Qiagen 1100 µL Conductive Sterile
953-251G	Qiagen 1100 µL Conductive Sterile Wide Bore
953-252	Qiagen 1100 µL Conductive Non Sterile
953-253	Qiagen 1100 µL Conductive Econo Pack

Molecular BioProducts BioRobotix Pipette Tips: Standard, Natural, Nonsterile

Molecular BioProducts BioRobotix clear polypropylene pipette tips are designed for maximum accuracy and repeatability.

Designed for maximum accuracy and repeatability, BioRobotix pipette tips are compatible with a variety of automated workstations from multiple vendors. Constructed of premium-grade virgin polypropylene, all tips are rigorously tested on the systems for which they were designed.

Cat. No.	Description – Validated Workstations
901-261	Tecan 20 µL Clear Sterile
901-262	Tecan 20 µL Clear Non Sterile
901-263	Tecan 20 µL Clear Econo Pack
902-261	Tecan 50 µL Clear Sterile
902-261XP	Tecan 50 µL Clear Sterile PATCH XPRESS
902-262	Tecan 50 µL Clear Non Sterile
902-262XP	Tecan 50 µL Clear PATCH XPRESS
902-263	Tecan 50 µL Clear Econo Pack
903-261	Tecan 200 µL Clear Sterile
903-262	Tecan 200 µL Clear Non Sterile
903-263	Tecan 200 µL Clear Non Sterile Econo Pack
904-261	Tecan 1000 µL Clear Sterile
904-262	Tecan 1000 µL Clear Non Sterile
904-263	Tecan 1000 µL Clear Non Sterile Econo Pack
906-261	Tecan Te-MO 50 µL Clear Sterile
906-262	Tecan Te-MO 50 µL Clear Non Sterile
907-261	Tecan Te-MO 100 µL Clear Sterile
907-262	Tecan Te-MO 100 µL Clear
908-261	Tecan Te-MO 200 µL Clear Sterile
908-262	Tecan Te-MO 200 µL Clear Non Sterile
912-261	Beckman Biomek FX 10 µL Clear Sterile
912-262	Beckman Biomek FX 10 µL Clear Non Sterile
915-261	Beckman Biomek 20 µL Clear Sterile
915-261-05	Beckman Biomek 20 µL Clear Sterile Low Retention
915-262	Beckman Biomek 20 µL Clear Non Sterile
915-262-05	Beckman Biomek 20 µL Clear Low Retention
916-261	Beckman FX Extended Length 50 µL Clear Sterile
916-261-05	Beckman FX Extended Length 50 µL Clear Sterile Low Retention
916-262	Beckman FX Extended Length 50 µL Clear Non Sterile
916-262-05	Beckman FX Extended Length 50 µL Clear Low Retention
917-261	Beckman Biomek 250 µL Clear Sterile
917-261-05	Beckman Biomek 200 µL Clear Sterile Low Retention
917-261G	Beckman Biomek 200 µL Clear Sterile Wide Bore
917-262	Beckman Biomek 250 µL Clear Non Sterile
917-262-05	Beckman Biomek 200 µL Clear Low Retention
918-261	Beckman Multimek 20 µL Clear Sterile
918-261-05	Beckman Biomek FX SPAN-8 20 µL Clear Sterile Low Retention
918-262	Beckman Multimek 20 µL Clear Non Sterile
918-262-05	Beckman Biomek FX SPAN-8 20 µL Clear Low Retention
919-261	Beckman Biomek 250 µL Clear Sterile
919-261-05	Beckman Biomek FX 250 µL Clear Sterile Low Retention
919-261G	Beckman Biomek FX 250 µL Clear Sterile Wide Bore

Details

- Compatible with a wide range of automated workstations
- Constructed of premium-grade virgin polypropylene
- Tips are rigorously tested on the systems for which they were designed
- Packaged in trays

Molecular BioProducts BioRobotix Pipette Tips
>> continued on next page

Molecular BioProducts BioRobotix Pipette Tips: Standard, Natural, Nonsterile (continued)

Cat. No.	Description – Validated Workstations
919-262	Beckman Multimek 250 µL Clear Non Sterile
919-262-05	Beckman Biomek FX 250 µL Clear Low Retention
919-262G	Beckman Biomek FX 250 µL Clear Wide Bore
920-261	Zymark 50 µL Clear Sterile
920-262	Zymark 50 µL Clear Non Sterile
921-261	Zymark 100 µL Clear Sterile
921-262	Zymark 100 µL Clear Non-Sterile
923-261	Zymark 200 µL Clear Sterile
923-262	Zymark 200 µL Clear Non Sterile
925-261	Perkin-Elmer Plate Trak 20 µL Clear Sterile
925-261-05	Perkin-Elmer Plate Trak 20 µL Clear Sterile
925-262	Perkin-Elmer Plate Trak 20 µL Clear
925-262-05	Perkin-Elmer Plate Trak 20 µL Clear
927-261	Perkin-Elmer Plate Trak 50 µL Clear Sterile
927-261-05	Perkin-Elmer Plate Trak 50 µL Clear Sterile
927-262	Perkin-Elmer Plate Trak 5 µL Clear
927-262-05	Perkin-Elmer Plate Trak 5 µL Clear
929-261	Perkin-Elmer Plate Trak 235 µL Clear Sterile
929-261-05	Perkin-Elmer Plate Trak 235 µL Clear Sterile
929-262	Perkin-Elmer Plate Trak 235 µL Clear
929-262-05	Perkin-Elmer Plate Trak 235 µL Clear
931-261	CCS/FLIPR Type A 384 30 µL Clear Sterile
931-262	CCS/FLIPR Type A 384 30 µL Clear Non Sterile
935-261	Beckman 384 30 µL Clear Sterile
935-261-05	Beckman 384 30 µL Clear Sterile Low Retention
935-262	Beckman 384 30 µL Clear Non Sterile
935-262-05	Beckman 384 30 µL Clear Low Retention
937-261	FLIPR Liberty Type B 384 30 µL Clear Sterile
937-262	FLIPR Liberty Type B 384 30 µL Clear Non Sterile
938-261	Beckman 384 Extended Length 50 µL Clear Sterile
938-261-05	Beckman 384 Extended Length 50 µL Clear Sterile Low Retention
938-262	Beckman 384 Extended Length 50 µL Clear
938-262-05	Beckman 384 Extended Length 50 µL Clear Low Retention
946-261	Velocity11 384 10 µL Clear Sterile
946-262	Velocity11 384 10 µL Clear Non Sterile
947-261	Velocity11 384 30 µL Clear Sterile
947-262	Velocity11 384 30 µL Clear Non Sterile
948-261	Velocity11 384 50 µL Clear Sterile
948-262	Velocity11 384 50 µL Clear Non Sterile
949-261	Velocity11 384 70 µL Clear Sterile
949-262	Velocity11 384 70 µL Clear Non Sterile
951-261	Qiagen 300 µL Clear Sterile
951-262	Qiagen 300 µL Clear Non Sterile
953-261	Qiagen 1100 µL Clear Sterile
953-262	Qiagen 1100 µL Clear Non Sterile
984-261	Biotek Precision SBS Format 50 µL Clear Sterile
984-262	Biotek Precision SBS Format 50 µL Clear
985-261	Biotek Precision SBS Format 100 µL Clear Sterile
985-262	Biotek Precision SBS Format 100 µL Clear
986-261	Biotek Precision SBS Format 200 µL Clear Sterile
986-262	Biotek Precision SBS Format 200 µL Clear

Thermo Scientific RapidStak Automated Microplate Stacker with Polara RS Software

The RapidStak Automated Microplate Stacker can be set up in minutes, providing walkaway time and relief from monotonous tasks.

Fast and reliable, the RapidStak Automated Microplate Stacker features dual-instrument loading for optimum versatility. Plates can be quickly delivered and processed using two instruments simultaneously. The RapidStak stacker provides valuable walkaway time and relief from monotonous tasks. Setup takes only minutes with most Thermo Scientific and third party instruments, even in the field. It's the perfect partner for your Multidrop bulk reagent dispenser product line, or Thermo Scientific ALPS line of automated sealers.

Details

- Rapid, high throughput performance
- High speed is made possible via a unique buffer-nest technology that enables parallel processing of stacking and plate loading
- Unique choreography and bidirectional telescoping arm design allow it to deliver plates to the instrument while performing the next stack/destack operation simultaneously
- Multitasking yields a load/unload time of less than six seconds, for up to 300 plates per hour throughput

Quick and Easy Setup

- Rapid, easy setup in the field for the least amount of instrument downtime – no tools required for setup
- No PC required for automation of Multidrop dispensers, Wellwash Versa microplate washers or ALPS Sealers
- No instrument modifications or additional options needed
- Does not interfere with the standalone use of the instruments

Flexible, Expandable

- Accommodates six to 22 mm SBS conforming plates
- Standard model holds two Staks for a capacity of 50 plates (15 mm size; one stack remains empty); can be upgraded to RapidStak 2x units
- RapidStak 2x stackers hold four Staks, handling up to 150 plates for even greater walkaway time
- 30- and 50-plate Staks are easily interchangeable and can be used with all RapidStak models

Automate Two Instruments with Polara RS Software

- Scheduling software transforms any RapidStak stacker into a complete, optimized benchtop assay system
- Lets you program the stacker to perform almost any plate-loading application
- Provides even greater versatility by automating virtually any two instruments simultaneously

Compliance: CSA approved

Certifications: CE marked UL listed

Cat. No.	Description
F01350	RapidStak
F01351	RapidStak 2x
F01489	RapidStak, Shortened
F01490	RapidStak 2x, Shortened
F01364	Upgrade Kit

Specifications	
Compatible Plate Types	6 to 22 mm SBS-conforming plates
Maximum Plate Capacity (10/15 mm)	Up to 50
Plate Delivery/Retrieval Time	6 seconds
Throughput	Up to 300 plates per hour
Interface	Serial RS-232C
W × D	Standard unit: 38.1 × 57.5 cm Short unit: 38.1 × 49.5 cm
Stack Height	25 stack: 52.5 cm 30 stack: 60.2 cm 50 stack: 87.9 cm

RapidStak Accessories: Microplate Stacks are compatible with the RapidStak and RapidStak 2x units.

Cat. No.	Model
F01492	25-plate Stack
F01362	30-plate Stack
F01363	50-plate Stack

Thermo Scientific RapidStak Instrument Drivers

RapidStak Instrument Drivers connect an ever-increasing number of laboratory instruments to Polara automated lab systems.

Polara RS Instrument Drivers enable you to easily integrate a wide variety of lab instruments and devices into a Polara RS automated lab system. They support instrument pooling, enabling you to add instruments for higher throughput without having to change your methods. You never have to specify robot operations in your method; Polara RS Instrument Drivers determine those for you.

Cat. No.	For Use with Thermo Scientific instruments
RSI0012	ALPS 3000
RSI0013	ALPS 300
RSI0014	ALPS 100
RSI0004	Fluoroskan Ascent, Fluoroskan Ascent FL and Luminoskan Ascent
RSI0010	Microscan MS-3 Barcode Reader
RSI0002	Multidrop 384/Micro/DW
RSI0003	Multidrop Combi
RSI0017	Multidrop Combi nL
RSI0001	Polara RS new instrument interface
RSI0011	Variomag Microplate Shaker
RSI0006	Varioskan Flash (only works with 2-stak RapidStak)
RSI0020	Multiskan FC
RSI0022	Wellwash Versa
RSI0015	Multiskan Spectrum

Thermo Scientific Polara RS

Polara RS Software is a proprietary software package that transforms any RapidStak Microplate Stacker into a complete, optimized benchtop assay solution. Automate two instruments quickly and easily.

Cat. No.	Model
F01517	Polara RS, Single Instrument License
F01518	Polara RS, Dual Instrument Licesne

Thermo Scientific RapidStak DLL Programming Kits

RapidStak DLL Programming Kits are designed to enable the connection of the RapidStak Microplate Stacker with other instruments.

This tool kit is for software engineers who want to enable any programmable device, such as a laboratory instrument, to control the RapidStak stacker via a serial communications connection.

Cat. No.	Model
F01410	Single Side
F01411	Dual Side

Depend on the full range of superior Thermo Scientific solutions...

Advanced design features combined with quality construction, offering years of dependable service

Cold Storage

Researchers worldwide protect more than two billion samples inside Thermo Scientific cold storage equipment. With +4°C refrigerators to -196°C cryogenic freezers and the proven performance of Thermo Scientific Nalgene and Nunc Cryo vials, you're free to concentrate on your work without worrying about your valuable samples.

Thermo Scientific Orbitor RS Microplate Mover

The Orbitor* RS Microplate Mover provides industrial-sized performance within a compact, benchtop mover.

Developed using proven technology from our Thermo Scientific RapidStak and Thermo Scientific Dimension4 product lines, the Orbitor RS high-speed microplate mover offers reliable performance with totally flexible plate handling. Extensive vertical reach allows multiple stacked or high density instruments to be loaded in a small footprint. A bidirectional telescoping arm provides superior reach, improved user safety, and unlimited base rotations within a 360° workspace. The Orbitor RS expands the existing range of Thermo Scientific automated technologies for drug discovery and addresses the demand for increased throughput, storage capacity and operational flexibility.

Details

Reliable
- Collision detection and recovery
- Plate sensing in the gripper
- Servo gripper does not drop a plate when the power goes out

Fast
- Delivers a plate in as little as four seconds
- Bidirectional telescoping arm
- Unlimited 360° rotations
- Motion blending for very smooth movements

Superior Reach and Small Footprint
- Integrate up to four instruments
- Reach radius of ±0.4 meters
- Additional storage capacity (up to nine hotels or stacks)
- Fits in most biosafety cabinets

Flexible Plate Handling
- Supports random or sequential access storage
- Landscape or portrait orientation within same stack or hotel
- Adjustable gripper
- De-lid plates via gripper
- Internal re-grip station

Easy to teach
- Manual teaching
- Easy-to-use interface for teaching
- SmartMove* technology teaches paths around obstacles
- Teach wizards are available for teaching stacks, hotels and instruments

Software
- Programmer's Tool Kit available for OEM opportunities
- Operates with Momentum workflow software
- Error detection and recovery
- Dynamic scheduler ensures efficient instrument use

Safe
- Collision detection automatically stops if the mover senses contact

Specifications	
Nominal Payload	320 g (11.3 oz)
Input Voltage	110V, 115V or 230V
Power Line Frequency	50/60Hz
Weight	25 kg (55 lb.)
Temperature Range	4 to 40°C (39 to 104°F)
Humidity	80%, noncondensing
Storage	24 to 96 random access; 80 to 440 stacked storage
Interface	RS232

Cat. No.	Model
Please contact your Thermo Scientific sales representative	

Thermo Scientific CataLyst Express Microplate Handler

The CataLyst Express Microplate Handler provides reliable, precise automation of microplate handling for a wide range of instruments and containers.

The Thermo Scientific CataLyst Express handler enables researchers to easily automate small volume assays, such as selectivity or specificity tests. It is the first truly industrial robot to be packaged as a ready-to-use, no-tools-required product for laboratory use. Controlled by Thermo Scientific Momentum workflow software, the CataLyst Express unit transfers microplates between instruments and the included storage units. The only setup and teaching required is physically installing an instrument relative to the CataLyst Express handler and teaching the path to the instrument.

The CataLyst Express hardware consists of a Thermo Scientific CataLyst-5 robotic arm, three microplate storage units and an integrated onboard re-grip station. A wide variety of microplate types is supported. A re-grip station enables the CataLyst Express handler to rotate microplates to either landscape or portrait orientation.

Specifications	
Nominal Payload	1 kg (2.21 lb.)
Input Voltage	110V, 115V or 230V
Power Line Frequency	50/60Hz
Weight	76 kg (167 lb.)
Temperature Range	10 to 40°C (50 to 104°F)
Humidity	80%, noncondensing
Storage	45 to 285 random access; 80 to 760 stacked storage
Interface	RS232

Cat. No.	Model
F01243	Standard Configuration
F01244	User-defined Configuration

Details

High throughput, Extreme flexibility

- Continuous, error-free operation for maximum walk-away time and throughput
- Easily automates virtually any application, including the loading and unloading of complex instruments
- Up to three times faster than competing movers for quicker results
- Random and sequential storage handles a wide range of containers
- Can be easily expanded to accommodate up to 760 stacked plates or 285 random-access plates by using the Thermo Scientific microplate carousel
- Momentum software automates multiple applications and schedules them simultaneously
- Mover Teach user interface makes setup and configuration effortless

Advanced Safety Features

- Remote Emergency Stop control
- Interlocked safety guarding that halts the arm when opened

Industrial-Strength Robotics

- Dexterous articulated robot provides five degrees of freedom, allowing for highly accurate positioning and plate placement
- System's 360° base rotation covers a maximum work area and allows very flexible instrument placement

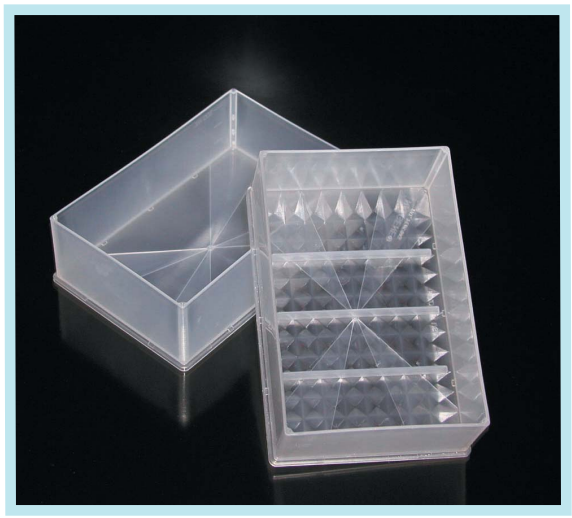
Ordering Information: Pre-configured PC has six serial ports, 15 digital inputs, 12 digital outputs, one analog input, four relay outputs and two serial ports

Compliance: Meets OSHA requirements; CSA approved

Certifications: CE marked

Thermo Scientific Nalgene Disposable Robotic Reservoirs

Nalgene* Disposable Robotic Reservoirs, featuring a standard microplate format in a 300 mL volume, increase walk-away time and minimize dead volume.



Details

- Polypropylene construction withstands robotic liquid handling, making it easier to run automated assays and increase walk-away time
- Compatible with most robotic arms, plate stackers (hotels), plate cranes and platform configurations
- Reservoir volume is 300 mL (345 mL brim capacity), with molded-in graduations every 100 mL
- Nestable, for easy automated stacking and handling
- Accepts bar-coded labels on two sides
- Available sterile and nonsterile with flat bottoms or with convoluted bottoms that minimize dead volume
- Flat-bottom configuration can be used with single-, 6-, 12-, 96-, 384- and 1536-well formats
- Convoluted-bottom design is most effective with a 96-well format

Ordering Information: Dimensions: 3.4" L × 5 W" × 1.75" H (86 × 128 × 43 mm)

Compliance: Conform to the ANSI* standard microplate footprint

Cat. No.	Description
1200-1300	Flat
1200-1301	Flat, Sterile
1200-2300	Convoluted
1200-2301	Convoluted, Sterile

Thermo Scientific Nunc Disposable Plastic Reservoirs

Nunc Disposable Plastic Reservoirs are disposable, batch traceable, and are fully compatible with automated instrumentation.

Featuring a standard microplate format, the revolutionary convoluted design minimizes dead volume and has baffles to reduce splashing. The flat bottom version is designed to meet a variety of assay needs in both manual and automated environments. Our reservoirs feature excellent chemical resistance and low adsorption of organic molecules or cells.

Made from the highest quality plastics, these reservoirs are ideal for use in biotechnology, pharmaceutical and research laboratories, as well as in the production of vaccines and diagnostic kits.

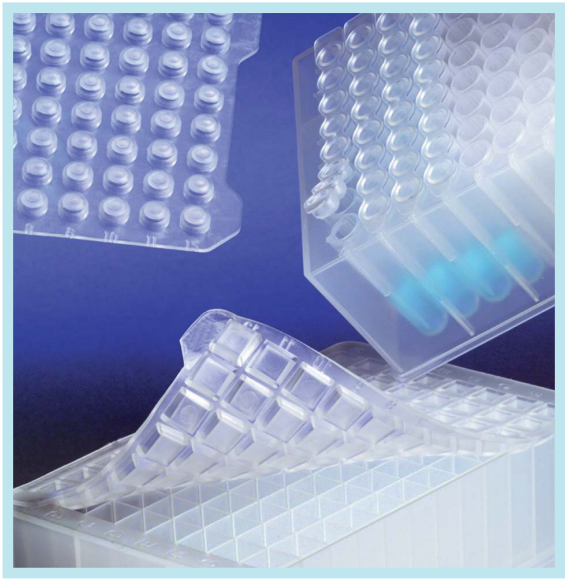
Details

- Made of low-binding polyprolylene material
- Highest usable capacity on the market: 300 mL capacity with graduations (345 mL brim)
- Fully compatible with automated instrumentation
- Dimensional compliance – standard microplate footprint
- Sterile version, RNAse/DNAse-free available
- Polypropylene for low binding
- With or without 96 indentations to reduce minimum required working volume (required volume: 2.1 mL for indented format)
- Baffles to reduce splashing
- Reservoirs are stackable
- Excellent chemical resistance and low adsorption of organic molecules or cells

Cat. No.	Surface	Sterile
370905	Flat	No
370906	Flat	Yes
370907	Indented	No
370908	Indented	Yes

Thermo Scientific Matrix Deepwell Storage Blocks

Matrix Deepwell Storage Blocks are constructed of chemical-resistant polypropylene and meet all standard microplate specifications.



Details

- Alphanumeric notations simplify the identification of wells
- Industry standard footprint ensures compatibility with sealers, stackers and liquid handlers
- Chimney well design reduces risk of carryover when filling wells
- 1 and 2 mL blocks have rounded bottoms and are ideal for use as mother plates when creating compound libraries using automated liquid handling instruments
- Chimney well design of the 1 mL block reduces risk of cross-contamination between wells during pipetting, while the 2 mL block has cut-away sides for easy handling and placement on robotic systems
- Industry standard footprint offers compatibility with sealers, stackers and liquid handlers
- Participating in our customized barcode service enables truly accurate tracking of plates

Unmatched Packaging

- Matrix microplates are available in quick tear bags for easy access
- Inverted plate packaging prevents potential contamination associated with reaching across a plate and facilitates loading of stackers in the correct orientation right out of the bag

Optional Barcoding

- Program flexibility includes choice of code types, color-codes and barcode positions
- Stringent quality control provides barcodes that are accurate, readable and applied correctly
- Each code is verified against a database to guarantee no duplicates at your laboratory site

Cat. No.	Description
4211MTX	1 mL deep-well; 40 blocks/case
4212MTX	1 mL deep-well; Sterile; 40 blocks/case
4221MTX	2 mL deep-well; 40 blocks/case
4222MTX	2 mL deep-well; Sterile; 40 blocks/case
4325MTX	384-well; 80 blocks/case
4326MTX	384-well; Sterile; 80 blocks/case

Microplate Instrumentation

The most complete solutions for all of your laboratory needs.

Thermo Scientific microplate instruments offer precise results and efficient performance, making them ideal for cell biology, molecular biology and immunology applications in the fields of cancer research, drug development, proteomics and genomics.

- Flexible, easy-to-use microplate washers support routine and varied research applications
- A choice of dedicated and multi-technology microplate readers offers a wide variety of applications
- Superior microplate incubator shakers deliver accurate temperature control and efficient orbital shaking

Microplate Instrumentation

Thermo Scientific iEMS Incubator/Shaker

The iEMS* Incubator/Shaker is a high-performance microplate incubator and shaker designed for ELISA applications.

The iEMS Incubator/Shaker provides superior temperature control and efficient orbital shaking to dramatically increase sensitivity and specificity of ELISA assays. It reduces incubation times, providing high performance and productivity that meet even the highest assay demands. Up to nine 96-well plates can be processed simultaneously, delivering constant incubation temperatures up to 40°C.

Details

- Unique design of the iEMS thermal microplate holder eliminates the edge effect, ensuring even microplate heating from all sides
- Accurate temperature uniformity across the plate provides high reliability for assays requiring elevated temperatures
- The unit incorporates a powerful variable-speed orbital shaker, offering efficient mixing for even very viscous liquids
- Shaking motion enhances the reaction in wells and reduces incubation times, increasing throughput and productivity

Includes: Nine iEMS thermal holders (Cat. No. 5921200)

Warranty: One year

Specifications	
Programmable Temperature Range	14°C to 40°C
Controlled Incubation Range	Ambient 3°C to 40°C
Resolution	0.1°C
Programmable Incubation Time	Up to 48 h in step of 1 s
Inaccuracy	±0.3°C
Uniformity	<0.3°C across whole plate
Evaporation	≤ 300 mg/plate after 1 hour (at 37°C, without plate sealer)
Shaking Frequency	400 to 1400 rpm in step of 250 rpm (5 speeds)
Diameter	1 mm (radius 0.5 mm)
Programmable Shaking Time	Up to 48 h in step of 1 second
Programmable Interval Time	Up to 48 h in step of 1 second

Cat. No.	Description
5112200	iEMS Incubator/Shaker 220-240V, 50/60 Hz
5112207	iEMS Incubator/Shaker 100-120V 50/60 Hz
5921200	iEMS Thermal Holder

Thermo Scientific iEMS Incubator/Shaker HT

The iEMS Incubator/Shaker HT is a high-performance microplate incubator and orbital shaker for assays requiring temperatures up to 69°C.

The iEMS Incubator/Shaker HT offers accurate temperature control and orbital shaking for increased productivity. It accommodates three 96-well plates in a small footprint, making it perfect for medium-sized laboratories.

Designed for extended temperatures, the iEMS Incubator/Shaker HT is ideal for applications, such as DNA hybridization and primer extension assays.

Details

- Offers an extended temperature range up to 69°C for wider range of applications
- Unique design of the iEMS thermal holder HT eliminates the edge effect and ensures microplates are heated evenly from all sides
- Accurate temperature uniformity offers high reliability for assays requiring elevated temperatures
- Incorporates a powerful variable-speed orbital shaker, providing efficient mixing for even very viscous liquids
- Shaking motion enhances the reaction in wells and reduces incubation times, increasing throughput and productivity

Includes: Three iEMS thermal holders HT (Cat. No. 5921210)

Warranty: One year

Specifications	
Programmable Temperature Range	14°C to 69°C
Controlled Incubation Range	Ambient 3°C to 69°C
Resolution	0.1°C
Programmable Incubation Time	Up to 48 h in step of 1 s
Warming Speed	35 min. from 24° to 65°C
Inaccuracy	±0.5°C
Uniformity	<0.6°C across whole plate
Evaporation	No evaporation as film on the plate (All specs are with film on the plate)
Shaking Frequency	400 to 1400 rpm in step of 250 rpm (5 speeds)
Diameter	1 mm (radius 0.5 mm)
Programmable Shaking Time	Up to 48 h in step of 1 second
Programmable Interval Time	Up to 48 h in step of 1 second

Cat. No.	Description
5112250	iEMS Incubator/Shaker HT 220-240V, 50/60 Hz
5112257	iEMS Incubator/Shaker HT 100-120V 50/60 Hz
5921210	iEMS thermal holder HT

Thermo Scientific Appliskan Multimode Reader

The Appliskan* Multimode Reader is a filter-based multitechnology microplate reader for photometric, luminometric and fluorometric research applications.

The Appliskan reader offers all detection technologies in one compact and robust instrument for a wide range of application needs. It features an onboard shaker, an incubator and up to two onboard dispensers, and accommodates 6- to 384-well plates.

Details

- All technologies included – fluorometry, luminometry, absorbance, Time-Resolved-Fluorescence (TRF) and FP
- Excellent sensitivity with luminometric and TRF applications
- Small footprint fits into even the most crowded laboratories
- Versatile Thermo Scientific SkanIt Software provides easy assay design, flexible data handling and convenient report formatting, even with challenging applications
- Numerous plate formats from 6- to 384-well
- Up to two dispensers for exact follow-up of kinetic reactions
- Fluorometric wavelength range up to 820 nm provides a high sensitivity and a wide linear dynamic range in all fluorometric applications, even with red-sensitive fluorochromes and demanding TR-FRET applications

Recommended for: Cellular assays, cytotoxicity and cell proliferation assays, DNA quantitation, ELISA/FIA/LIA assays, enzyme kinetic studies, europium assays, FRET and BRET assays, GPCR assays, Ion channel assays, kinase assays, multi-label assays, phagocytosis, protein assays, reporter gene assays and signal transduction

Includes: SkanIt Software, Excitation 485 nm and Emission 535 nm filters. Other filters available upon request.

Warranty: One year

Specifications	
Excitation Wavelength Range (Fluorometry)	200 nm to 1000 nm
Emission Wavelength Range (Fluorometry)	360 nm to 820 nm
Sensitivity (Fluorometry)	Fluorescence intensity: <2 fmol fluorescein/well, 384-well plate; Time-resolved fluorescence: <20 amol Europium/well, 384-well plate
Precision	Fluorescence Polarization: <10mP 1nM Fluorescein, 96-well plate
Dynamic Range (Fluorometry)	>5 decades
Wavelength Range (Luminometry)	Standard mode: 360 nm to 820 nm; High-sensitive mode: 300 nm to 630 nm
Sensitivity (Luminometry)	High-sensitive mode: <10 amol ATP/well, 384-well plate; Standard mode: <200 amol ATP/well, 384-well plate
Dynamic Range (Luminometry)	>5 decades
Wavelength Range (Photometry)	200 nm to 1000 nm
Measurement Range (Photometry)	0 to 4.0 Abs
Linearity (Photometry)	0 to 2.5 Abs (96-well plates) at 450 nm, ±2%, 0 to 2 Abs (384-well plates) at 450 nm, ±2%
No. of Dispensers	Up to two
Dispensing Volume	5 to 500 µL with 1 µL increments
Incubator Temperature Range	From ambient +4°C to 45°C, at ambient 25°C, at ambient 25°C
Shaking	Linear shaking
Plate Types	6 to 384-well plates
Wavelength Selection	Filters (Ex/Abs 12.5 mm, Em 25.4 mm)
Measurement Types	Fluorescence intensity, time-resolved fluorescence, fluorescence polarization, absorbance and luminescence
Light Source	Xenon flash lamp
User Interface	Requires, but does not include, a personal computer
Computer Interface	Serial RS-232-C port
W × D × H	14.8 × 19.5 × 13.5 in. (37.5 × 49.5 × 34 cm)
Weight	27 kg (60 lbs.)

Cat. No.	Description
Instruments	
5230000	Appliskan
5230010	Appliskan with one dispenser
5230020	Appliskan with two dispensers
Upgrade Kits	
460SP400	First Dispenser Kit
460SP420	Second Dispenser Kit

Thermo Scientific Varioskan Flash Multimode Reader

The Varioskan* Flash spectral scanning multimode reader offers optimal performance with unlimited wavelength selection for your most demanding research assays.

The Varioskan Flash reader provides flexibility for a variety of different applications, with unlimited wavelength selection, up to three onboard dispensers, unparalleled optical performance and the advanced Thermo Scientific SkanIt Software.

Varioskan Flash spectral scanning multimode reader includes fluorescence intensity, time-resolved fluorescence (TRF), photometric and optional luminometric detection technologies. It is designed for optimization and analysis of binding assays, ADMETox, molecular biology assays, enzyme kinetic studies, ion-channel and cell signaling assays, and other assays.

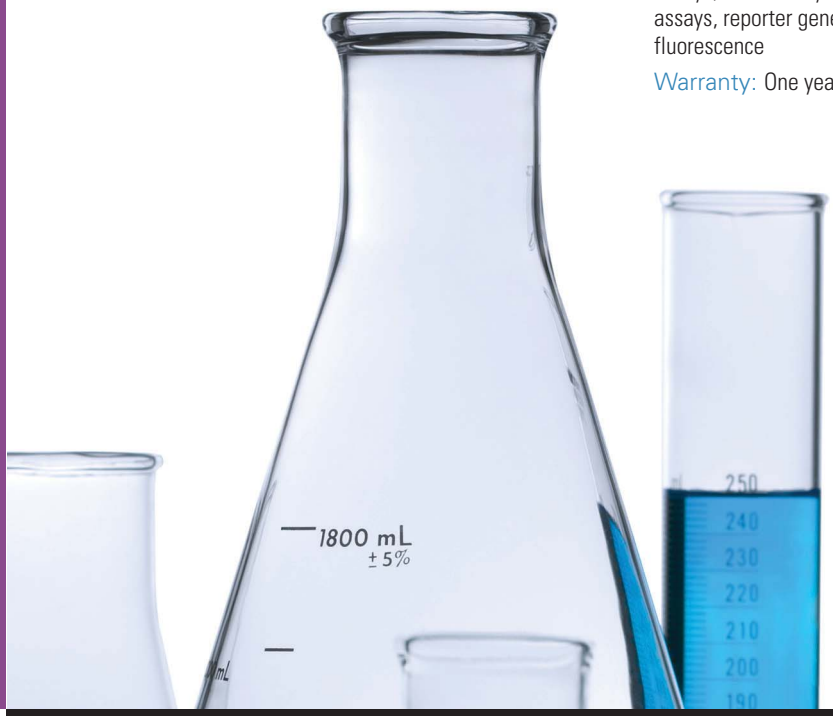
Details

- Unlimited wavelength selection for spectral analysis and measurement at any single wavelength: The optimal measurement wavelengths can be identified and easily selected for any assay at any time
- Extremely easy measurement setup with automated internal functions, offering maximum sensitivity and full dynamic range for every assay
- Onboard dispensers for exact follow-up of kinetic reactions: Essential for flash luminescence assays, Ca^{2+} flux studies and other rapid kinetic applications
- Increased assay throughput: Reads up to 1536-well plates and can easily be integrated with automated systems
- High performance incubator for temperature-critical assays
- Easy assay setup, flexible data handling and convenient report formatting with Thermo Scientific SkanIt Software

Increase throughput with a RapidStak Automated Microplate Stacker

Recommended for: Apoptosis assays; Ca^{2+} flux assays, cell proliferation, cellular assays, cytotoxicity and ADMETox, direct DNA, RNA and protein quantitation, ELISA/FIA/TRF-ELISA assays, enzyme kinetic studies, europium assays, FRET assays, TR-FRET assays, BRET assays, GPCR assays, Ion channel assays, kinase assays, multilabel assays, reporter gene assays, signal transduction, tryptophan and tyrosine UV fluorescence

Warranty: One year



Specifications	
Fluorescence Intensity/Time-Resolved Fluorescence	
Plate types	6 - 1536-well plates
Wavelength selection	Double excitation and double emission monochromators
Excitation wavelength range	200 - 1000 nm
Emission wavelength range	270 - 840 nm
Excitation/emission bandwidth	5 nm and 12 nm/12 nm
Sensitivity/dynamic range	Fluorescence intensity, top reading: < 0.4 fmol fluorescein/well, > 6 decades, 384-well plate Fluorescence intensity, bottom reading: < 4 fmol fluorescein/well, > 5.5 decades, 384-well plate Time-resolved fluorescence, top reading: < 120 amol europium/well, > 6 decades, 384-well plate
Luminometry	
Plate types	6 - 1536-well plates, spectral scanning 6 - 384-well plates
Wavelength selection	All wavelengths, filters and double monochromators
Wavelength range	360 - 670 nm, spectral scanning 270 - 840 nm
Sensitivity/dynamic range	< 7 amol ATP/well, > 7 decades, flash ATP reaction, 384-well plate
Photometry	
Plate types	6 - 384-well plates
Wavelength selection	Double monochromators
Wavelength range	200 - 1000 nm
Bandwidth	5 nm
Linearity	0 - 4 Abs (96-well plate) at 450 nm, ±2% 0 - 3 Abs (384-well plate) at 450 nm, ±2%
Accuracy	±2% or 0.003 Abs, whichever is greater, at 200 - 399 nm (0 - 2 Abs) ±1% or 0.003 Abs, whichever is greater, at 400 - 1000 nm (0 - 3 Abs)
Precision	SD < 0.001 Abs or CV < 0.5%, whichever is greater, at 450 nm (0 - 3 Abs)
Dispensing	
No. of dispensers	Up to 3, automatic dispensing position control
Plate types	6 - 384-well plates
Syringe size	1 mL (standard), 5 mL (on request)
Dispensing volume	1 - 10 000 µL, with 1 µL increments (1 mL syringe) Automatic safety control based on maximum well volume
Dispensing speed	30 s, 96-well plate 80 s, 384-well plate (5 µL/well, 1 mL syringe, 0.40 mm tip)
Incubator	
	From ambient + 4°C to 45°C, at ambient 25°C
Shaker	
	Orbital with adjustable speed and diameter
General Features	
Measurement speed	96-well plate in 15 s, 384-well plate in 45 s, and 1536-well plate in 135 s (minimum kinetic interval time from A1 back to A1)
Spectral scanning speed	< 2 s/well, 400 - 500 nm, 1 flash, 2 nm steps
Measurement types	Fluorescence intensity, time-resolved fluorescence, photometry and optional luminometry, all with spectral scanning
Light source	Xenon flash lamp
Dimensions (H × W × D)	500 × 540 × 580 mm 19.7 × 21.3 × 22.8 in.
Weight	55 - 67 kg (121 - 148 lbs.), depending on the configuration

Cat. No.	Model
5250030	Varioskan Flash, top reading
5250040	Varioskan Flash, top and bottom reading
5250500	Varioskan LumiSens option, factory fitted (also enables luminometric spectral scanning)
5250510	Dispenser option, with 1 mL syringe, factory fitted

Thermo Scientific Fluoroskan Ascent FL Microplate Fluorometer and Luminometer

Increase throughput with a RapidStak Automated Microplate Stacker

The Fluoroskan Ascent* FL Microplate Fluorometer and Luminometer excels at rapid kinetic assays, cytotoxicity and related applications.

The Thermo Scientific Fluoroskan Ascent FL Microplate Reader is a compact and robust instrument with excellent optical performance for a variety of fluorometric and luminometric research applications. It offers versatile plate formats, fast reading speeds, up to three dispensers and top/bottom reading of plates.

Details

Fast reading speed

- Reads a 96-well plate in just 15 seconds, essential for kinetic applications
- Great for a wide variety of applications, including cytotoxicity, ion channel, FRET and BRET
- The combination of fluorometric GFP measurement and a luminometric luciferase measurement from the same well is fast due to the versatility of assay programming

Onboard dispensers for exact follow-up of kinetic reactions

- Equipped with up to three reagent dispensers for rapid kinetic assays, such as Ca^{2+} flux
- Supports simultaneous dispensing and reading, enabling monitoring of kinetic measurements from the very start of the reaction
- Very low dead volume and the backflush capability allow conservation of expensive reagents

High sensitivity for both top and bottom reading

- Fiberless direct illumination optics for both top and bottom reading
- High sensitivity, wide dynamic range and low cross talk ensure accurate and precise results for 1- to 384-well plates

Specially designed for automation

- Reads up to 384-well plates for increased assay throughput
- Easily integrated with automated systems

Recommended for: Ca^{2+} flux assays, cell proliferation, cytotoxicity, cell adhesion, DNA quantitation, reporter gene assays, hybridization assays, quantitation of PCR products, FRET assays, BRET assays, molecular beacon assays, immunoassays, enzyme activity, bacterial quantitation, phagocytosis, and oligonucleotide assays

Includes: PC software and filter pairs: Excitation: 355 nm/Emission: 460 nm, Excitation: 485 nm/ Emission: 538 nm

Warranty: One year

Specifications	
Wavelength Range	Excitation: 320 nm - 700 nm; Emission: 360 nm - 670 nm
Excitation Filters	Up to eight filters in the excitation filter wheel. 355 nm and 485 nm filters included as standard. Other filters available upon request.
Emission Filters	Up to six filters in the emission filter wheel. 460 nm and 538 nm filters included as standard. Other filters available upon request.
Sensitivity	Fluorometry: 2 fmol fluorescein/well in a black 96-well plate Luminometry: 40 amol ATP/well using flash reaction, white 384-plate
Dynamic Range	Fluorometry: >6 decades Luminometry: >9 decades over whole gain setting area
No. of dispensers	Up to 3
Dispensing volume	1 to 1000 µL in 1 µL increments
Dispensing Speed	25 seconds, 96-well plate, 5 µL/well
Plate Types	1- to 384-well plates
Measurement Speed	15 seconds, 96-well plate
Wavelength selection	Filters
Light Source	Quartz-halogen Lamp
Detector	Photomultiplier Tube
Incubator	From ambient +3°C to 45°C, at ambient 25°C
Shaking	Orbital shaker
Computer Interface	Serial RS-232C port
User Interface	Requires a computer (not included)
Dimensions (HxWxD)	13.4 × 16.5 × 16.5 in. (34 × 42 × 42 cm)
Weight	Basic unit: 21 kg (46 lbs.); three optional dispensers add 3.5 kg

Cat. No.	Description
5210450	Fluoroskan Ascent FL
5210460	Fluoroskan Ascent FL with one dispenser
5210462	Fluoroskan Ascent FL with two dispensers
5210463	Fluoroskan Ascent FL with three dispensers

Includes PC software and filter pairs: Ex 355 nm/ Em 460 nm, Ex 485 nm/ Em 538 nm; Additional filters available upon request

Thermo Scientific Fluoroskan Ascent Microplate Fluorometer

The Fluoroskan Ascent Microplate Fluorometer is a compact and robust instrument with excellent optical performance for a variety of research applications, including quantitation of double-stranded DNA in a solution.

The Fluoroskan Ascent Microplate Fluorometer is ideal for life science research applications, including fluorometric protein and enzyme studies, molecular interactions, nucleic acid quantification, reporter gene, fluorometric kinase, immuno and cell based assays.

Details

Fast reading speed

- Enables the most rapid throughput
- Ideal for a wide variety of applications, such as cytotoxicity, ion channel and FRET

Onboard dispensers for exact follow-up of kinetic reactions

- Equipped with up to three reagent dispensers for fast kinetic assays, such as Ca^{2+} flux
- Supports simultaneous dispensing and reading, enabling monitoring of fast kinetic measurements from the very start of the reaction
- Very low dead volume and the backflush capability allow conservation of expensive reagents

High sensitivity for both top and bottom reading

- Fiberless direct illumination optics for both top and bottom reading
- Ensures a high sensitivity, a wide dynamic range, and accurate and precise results for 1- to 384-well plates

Specially designed for automation

- The Fluoroskan Ascent fluorometer can read up to 384-well plates for increased assay throughput
- Easily integrated with automated systems

Increase throughput with a RapidStak Automated Microplate Stacker

Recommended for: Ca^{2+} flux assays, cell proliferation, cytotoxicity, multi-drug resistance, cell adhesion, DNA quantitation, reporter gene assays, hybridization assays, quantitation of PCR products, FRET assays, molecular beacon assays, immunoassays, enzyme activity, neonatalogy, bacterial quantitation, phagocytosis, oligonucleotide assays and ADMEtox

Includes: PC software and filter pairs: Excitation: 355 nm/Emission: 460 nm, Excitation: 485 nm/ Emission: 538 nm

Warranty: One year

Specifications	
Excitation Wavelength Range (Fluorometry)	320 nm to 700 nm
Emission Wavelength Range (Fluorometry)	360 nm to 800 nm
Excitation Filters (Fluorometry)	Up to eight filters in the excitation filter wheel. 355 nm and 485 nm filters included as standard. Other filters available upon request.
Emission Filters (Fluorometry)	Up to eight filters in the emission filter wheel. 460 nm and 538 nm filters included as standard. Other filters available upon request.
Sensitivity (Fluorometry)	2 fmol fluorescein/well in a black 96-well plate
Dynamic Range (Fluorometry)	>6 decades
No. of dispensers	Up to 3
Dispensing volume	1 to 1000 µL in 1 µL increments
Dispensing Speed	25 seconds, 96-well plate, 5 µL/well
Plate Types	1- to 384-well plates
Measurement Speed	15 seconds, 96-well plate
Wavelength selection	Filters
Light Source	Quartz-halogen lamp
Detector	Photomultiplier Tube
Incubator	From ambient +3°C to 45°C, at ambient 25°C
Shaking	Orbital shaker
Computer Interface	Serial RS-232C port
User Interface	Requires a computer (not included)
Dimensions (H × W × D)	13.4 × 16.5 × 16.5 in. (34 × 42 × 42 cm)
Weight	Basic unit: 21 kg (46 lbs.); three optional dispensers add 3.5 kg

Cat. No.	Description
5210470	Fluoroskan Ascent
5210480	Fluoroskan Ascent with one dispenser
5210482	Fluoroskan Ascent with two dispensers
5210483	Fluoroskan Ascent with three dispensers
Includes PC software and filter pairs: Ex 355 nm/ Em 460 nm, Ex 485 nm/ Em 538 nm; Additional filters available upon request	

Thermo Scientific Luminoskan Ascent Microplate Luminometer

The Luminoskan Ascent Microplate Luminometer excels at luminometric applications, including reporter gene, immuno and cell based assays, enzyme studies, molecular interactions and more.

The Luminoskan Ascent Microplate Luminometer is a compact and robust instrument with excellent optical performance for a variety of luminometric research applications, offering versatile plate formats, fast reading speeds and up to three dispensers.

Details

Fast reading speed

- Reads a 96-well plate in just 15 seconds
- Essential for kinetic applications, such as enzyme kinetics and phagocytosis assays

Onboard dispensers for exact follow-up of kinetic reactions

- Equipped with up to three reagent dispensers for fast kinetic assays, such as ATP assays
- Supports simultaneous dispensing and reading, enabling monitoring of fast kinetic measurements from the very start of the reaction
- Very low dead volume and the backflush capability enable conservation of expensive reagents

High sensitivity

- DLReady* certified for excellent sensitivity
- High sensitivity, a wide dynamic range and low crosstalk ensure accurate and precise results in all luminometric assays

Specially designed for automation

- Reads up to 384-well plates for increased assay throughput
- Easily integrates with automated systems

Increase throughput with a RapidStak Automated Microplate Stacker

Recommended for: Reporter gene assays, immunoassays with luminescent substrates, cell proliferation and cytotoxicity assays, intracellular Ca^{2+} assays, ATP assays, phagocytosis assays, reactive oxygen assays, microbiological assays, enzyme assays, BRET assays and ADMEtox

Includes: PC software

Warranty: One year

Specifications	
Wavelength Range (Luminometry)	270 nm to 670 nm
Sensitivity (Luminometry)	10 amol ATP/well using flash reaction, white 384-well plate
Dynamic Range (Luminometry)	>9 decades over whole gain setting area
No. of dispensers	Up to 3
Dispensing volume	1 to 1000 µL in 1 µL increments
Dispensing Speed	25 seconds, 96-well plate, 5 µL/well
Plate Types	1 to 384-well plates
Measurement Speed	15 seconds, 96-well plate
Wavelength selection	Filters
Detector	Photomultiplier Tube
Incubator	From ambient +3°C to 45°C, at ambient 25°C
Shaking	Orbital shaker
User Interface	Requires a computer (not included)
Computer Interface	Serial RS-232C port
Dimensions (H × W × D)	13.4 × 16.5 × 16.5 in. (34 × 42 × 42 cm)
Weight	46 lb. (21 kg)

Cat. No.	Description
5300160	Luminoskan Ascent
5300170	Luminoskan Ascent with one dispenser
5300172	Luminoskan Ascent with two dispensers
5300173	Luminoskan Ascent with three dispensers

Includes PC software and filter pairs: Ex 355 nm/ Em 460 nm, Ex 485 nm/ Em 538 nm; Additional filters available upon request

Thermo Scientific Multiskan EX Microplate Photometer

The Multiskan* EX Microplate Photometer combines ease of use and proven reliability – an ideal benchtop microplate photometer for basic ELISA applications.

The Multiskan EX photometer is a basic reader for endpoint and kinetic assays, with PC software offering a wide range of data reductions and report generation.

Details

- Easy to use on-board software to run ELISA based applications
- Versatile Ascent Software provides flexible assay programming and data handling for research applications
- Wavelength range from 400 nm up to 750 nm
- Fast reading of 96 well plate
- Exceptional reliability and extended three year warranty
- Multiskan EX photometer with onboard software complies with the IVD (in vitro diagnostics) Directive 98/79/EC (Note: the EU Directive is not valid in North America)

Recommended for: Immunoassays, protein assays, growth curve and hormone assays, endotoxins, food diagnostics, HIV assays, hybridization assays, mini-sequencing assays, cytotoxicity, cell adhesion, signal transduction, endotoxins, antioxidants and food diagnostics

Warranty: Three years

Specifications	
Wavelength Selection	Filters
Wavelength Range	400 nm to 750 nm
Filters	8-position filter wheel; Standard filters: 405 nm, 450 nm, 620 nm; Other filters available upon request
Read-out Range	0 to 3.5 Abs
Linearity (Photometry)	0 to 2 Abs, ±2% at 405 nm
Accuracy (Photometry)	±2% or 0007 Abs, whichever is greater, typical value ±1% (0 to 2 Abs) at 405 nm
Precision	CV < 0.5% (0.3 to 1.5 Abs) at 405 nm CV < 1% (1.5 to 2 Abs) at 405 nm
Resolution	0.001 Abs
Plate Types	96-well plate
Measurement Speed	5 seconds, 96-well plate
Light Source	Quartz tungsten halogen lamp
Detector	Eight (8) silicon photodetectors
Shaking	Linear shaking, three speeds
User Interface	On-board or PC control
Computer Interface	RS-232C serial interface
W × D × H	16.5 × 12.6 × 5.5 in. (42 × 32 × 14 cm)
Weight	11 kg

Cat. No.	Description
51118177	Multiskan EX 100-120V 50/60Hz
51118170	Multiskan EX 200-240V, 50/60 Hz

Thermo Scientific Multiskan FC Microplate Photometer

The Multiskan FC Microplate Photometer is a filter-based microplate photometer with a 340 - 850 nm wavelength range, ideal for a range of applications from enzyme kinetic studies to Lowry assays.

The Multiskan FC photometer incorporates our 30-plus years of experience and leadership in microplate photometry. It delivers proven performance and reliable results for a wide variety of applications, with features including built-in self diagnostics, IQ/OQ/PQ and verification tools, and an easy to use visual user interface with multiple language availability.

Details

- Wide wavelength range of 340 nm to 850 nm
- Fast reading of both 96- and 384-well plates
- Shaking and incubation up to 50°C for temperature critical assays
- Ease of use through the large color screen
- Variety of languages (English, Chinese, French, German, Japanese, Portuguese, Russian, Spanish)
- Superior usability and logical workflow with Thermo Scientific SkanIt Software
- USB port for easy data transfer

Recommended for: Immunoassays (ELISA), protein assays, endotoxins, cytotoxicity and proliferation assays, enzyme assays, and growth curves

Warranty: One year

Download a variety of Multiskan FC ready-made software protocols from thermoscientific.com

Increase throughput with a RapidStak Automated Microplate Stacker

Specifications	Description
W × D × H	11.4 × 15.7 × 8.3 in. (29 × 40 × 21 cm)
Wavelength Range	340 nm to 850 nm
Wavelength Selection	Filters
Linearity (405 nm)	96-well plate: 0 to 4 Abs, ±2%, normal mode; 0 to 3 Abs, ±2%, fast mode 384-well plate: 0 to 3 Abs, ±2%, normal mode; 0 to 2.5 Abs, ±2%, fast mode
User Interface	On-board or PC control
Readout range	0 to 6 Abs
Accuracy (405 nm)	±1% (0.3 to 3 Abs), ±2% (3 to 4 Abs)
Precision (405 nm)	CV ≤0.2% (0.3 to 3 Abs), CV ≤1.0% (3 to 4 Abs)
Light Source	Quartz-halogen lamp
Detector	Photodetector
Display	High contrast color display with 480 × 272 dots
Plate Types	96- and 384-well plates
Measurement Speed	6 seconds, 96-well plate, fast mode; 12 seconds, 96-well plate, normal mode; 11 seconds, 384-well plate, fast mode; 33 seconds, 384-well plate, normal mode
Resolution	0.001 Abs
Shaking	Linear shaking with three modes: Slow, medium, fast
Filters	8-position filter wheel; filters installed: 405 nm, 450 nm, and 620 nm. Additional filters can be ordered separately.
Optional Incubator	Temperature range from ambient +4°C up to 50°C

Cat. No.	Description
51119000	Multiskan FC
51119100	Multiskan FC with incubator

Thermo Scientific Multiskan GO Microplate Spectrophotometer

The Multiskan GO UV/Vis Microplate Spectrophotometer offers freely-selectable wavelengths for 96- and 384-well plates and various types of cuvettes.

The Multiskan GO spectrophometer features a broad wavelength range, including UV area and path length correction, as well as fast reading speed. It is the ideal tool for virtually any photometric research application: DNA, RNA, protein analysis and more. It offers exceptional usability through its intuitive, user-friendly internal software and comprehensive Thermo Scientific SkanIt Software, both available with multiple language options. An automatic power save function reduces energy consumption. Additionally, the Multiskan GO unit meets the RoHS (Restriction of Hazardous Substances) directive.

The Multiskan GO spectrophometer has been designed to deliver first-rate performance and high quality results with minimal user effort. At instrument start up, extensive automatic self diagnostics verifies all major instrument functionalities. Continuous runtime control of optical and mechanical functions also ensures stable day-to-day and year-after-year performance and reliability.

Download a variety of ready-made software protocols for the Multiskan GO spectrophometer from thermoscientific.com

Details

- Freely-selectable wavelengths from 200 to 1000 nm meets the demands of various assays
- Both microplate and cuvette reading for any throughput requirements
- Very fast plate measurements and a full spectrum of a sample in less than 10 seconds
- High quality data guaranteed by extensive self diagnostics
- Energy consumption of the instrument is reduced more than 70% when the power save function is activated.
- Visual internal software on a large color screen for quick measurements
- Easy and logical assay setup for demanding assays with the powerful SkanIt Software
- A selection of eight languages (English, Chinese, French, German, Japanese, Portuguese, Russian, Spanish)

Recommended for: DNA and RNA quantitation and purity, protein assays, enzyme assays, kinetic assays, immunoassays, cell proliferation and cytotoxicity assays, apoptosis assays, reporter gene assays and GPCR assays

Warranty: One year

Specifications	
Wavelength Selection	Monochromator
Light Source	Xenon flash lamp
Wavelength Range	200-1000 nm with 1 nm steps
Read-out Range	Up to 4 Abs
Bandwidth	<2.5 nm
Linearity	0-2.5 Abs, 2% at 450 nm (96-well plate, cuvette with beam window ≥2 mm)
Accuracy	1.0% + 0.003 Abs (0-2.0 Abs) 2% (2.0-2.5 Abs) at 450 nm
Precision	SD<0.003 Abs or CV<0.5% at 450 nm (Precision mode) SD<0.003 Abs or CV<1% at 450 nm (Fast mode)
Plate Types	96- and 384-well plates
Cuvettes	12.5 (W) × 12.5 (D) × 40-58 (H) mm
Measurement Speed	6 s with 96-well plate 10 s with 384-well plate (from A1 back to A1)
Plate Shaking	Linear
Spectral Scanning Speed	10 s from 200 to 1000 nm with 1nm steps
Incubation	From ambient +2°C to 45°C
User Interfaces	Stand alone use: 4.5-inch color display and keypad PC-control: SkanIt Software
USB Connections	PC Memory device port for data export External printer (HP PCL5 compatible)
Mains Input	100-240V, 50/60Hz
Max Power Consumption	<110 W
Power Save Consumption	<2.5 W
Dimensions (W × D × H)	11.2 × 16.9 × 10.2 in. (28.5 × 43 × 26 cm)
Weight	10.8 kg (23.8 lbs.)

Cat. No.	Description
51119200	Multiskan GO without cuvette
51119300	Multiskan GO with cuvette

Thermo Scientific Multiskan Spectrum Microplate Spectrophotometer

The Multiskan Spectrum Spectrophotometer is a high performance instrument for endpoint, kinetic and spectral scanning applications, reading 6-to 384-well microplates and cuvettes.

The Multiskan Spectrum Spectrophotometer combines cuvette reading capabilities and advanced microplate reading in one convenient, compact instrument. It features unlimited wavelength selection, measurement at low UV to visible wavelengths, and flexible sample formats ranging from cuvettes to screening assays in 384 well plate formats.

The Multiskan Spectrum unit excels at nucleic acid and protein analysis, enzyme assays, cytotoxicity and cell proliferation assays and apoptosis assays.

Increase throughput with a RapidStak Automated Microplate Stacker

Details

- Unlimited wavelength selection for both spectral analysis and for easy setup when changing assays
- Supports assays requiring measurement from low UV to visible wavelengths
- Reads both cuvettes and 6- to 384-well microplates, offering flexibility from single sample measurements to screening assays
- The Multiskan Spectrum spectrophometer can easily be integrated with automated systems for increased assay throughput
- Onboard incubator for temperature-sensitive assays and onboard shaker with selectable speed
- Easy assay setup, flexible data handling and convenient report formatting with Thermo Scientific SkanIt Software

Recommended for: Nucleic acid analysis, enzyme assays, protein analysis, kinetic assays, cytotoxicity and proliferation assays, apoptosis assays and ELISA assays

Warranty: One year

Specifications	
Wavelength selection	Monochromator
Wavelength range	200 to 1000 nm
Read-out range	0 to 4 Abs
Linearity	0 to 3 Abs, ±2% at 450 nm
Accuracy	±1.0% or ±0.005 Abs (0 to 2 Abs) ±2.0% (2 to 3 Abs)
Precision	SD <0.005 Abs or CV <1% (0 to 2 Abs) CV <2% (2 to 3 Abs)
Bandwidth	2 nm
Wavelength accuracy	±1 nm
Stray light	<0.02% at 230 nm
Plate types	6- to 384-well plates
Cuvette types	Two cuvettes, for sample and reference From standard to ultramicro; glass, plastic or quartz
Measurement speed	96-well plate: 20 s typical 384-well plate: 60 s typical
Light source	Xenon flash lamp
Detector	Photodiodes
Incubation	From ambient +4°C to 45°C at ambient 25°C
Shaking	Plate: linear Cuvette: magnetic stirrer
W × D × H	15.6 × 17.7 × 8.5 in. (39.7 × 45 × 21.7 cm)
Weight	12.5 kg (27.5 lbs.)

Cat. No.	Description
51118600	Multiskan Spectrum with cuvette, SkanIt Software Drug Discovery Edition
51118650	Multiskan Spectrum with cuvette, SkanIt Software Research Edition
51118700	Multiskan Spectrum without cuvette, SkanIt Software Drug Discovery Edition
51118750	Multiskan Spectrum without cuvette, SkanIt Software Research Edition

Thermo Scientific Wellwash 4 Mk2 Microplate Washer

The Wellwash* 4 Mk2 Microplate Washer combines easy operation and reliable washing performance for excellent finishing results.

The Wellwash 4 Mk2 Microplate Washer is the ideal strip washer for routine ELISA applications.

The uncompromised performance combined with flexibility and easy-to-use wash cards make the Wellwash 4 Mk2 ideal for routine ELISA applications in clinical, veterinary, food and agricultural laboratories.

Details

- Unique co-axial wash heads provide high washing efficiency and contamination-free results needed for routine ELISA applications
- Pre-programmed wash cards offer a quick and easy start for routine users
- Programmable program cards and interchangeable 8- and 12-way wash heads deliver flexibility for research work
- Supplied with convenient, quick release bottle caps for easy buffer changes
- Pump shuts down automatically after 30 seconds to reduce wear and noise levels
- The Wellwash 4 Mk2 washer complies with the IVD (in vitro diagnostics) Directive 98/79/EC (Note: the EU Directive is not valid in North America)

Includes: One 8-way and one 12-way wash head, 2 L wash and 2 L waste bottles

Warranty: One year

Specifications	
Wash/Waste Bottle Capacity	2 L wash bottle, 2 L waste bottle
Priming Consumption	15 to 20 mL
Residual Volume	<5 µL per well
Precision	5%
Operating Cycles	Continuous
Wash Heads	8- and 12-way
Operating Pressure (self-limited)	0.5 bar
Weight	10 kg

Cat. No.	Description
5160772	Wellwash 4 Mk2 110-120V 60Hz
5160770	Wellwash 4 Mk2 220-240V 50Hz

Thermo Scientific Wellwash Microplate Washer

The Wellwash Microplate Washer is easy to use and convenient for routine ELISA applications.

The Wellwash washer offers ease of use and convenience through an easy-to-view graphical user interface, local language versions and a USB port. Equipped with one wash bottle and 1 x 8 way wash head, it is designed for washing 96-well plates in routine ELISA applications.

Details

Easy and convenient to use

- Large color display and keyboard for easy operation
- Display is clear, showing everything needed in one place
- User interface is intuitive for quick protocol development
- Easy-to-use software requires minimal training for fast startup
- Unpressurized bottles are safe and secure to use
- Liquid level sensors are present in both wash and waste bottles for security
- Automatic prime feature provides safe performance
- Aerosol cover prevents aerosolization of infectious diseases
- Plate sensor recognizes presence of plate
- The Wellwash unit is designed to efficiently remove excess liquid from wells
- Low residual volumes deliver optimal washing performance and reliable assay results

Recommended for: ELISA-based assays

Includes: 1 x 2 L wash bottle, 1 x 2 L waste bottle, 1 x 8 wash head, aerosol cover

Warranty: One year

Find best practices in washing at www.thermoscientific.com/wellwash

Specifications	
Number of Wash Bottles	1
Wash Heads (Optional)	1 × 8, 1 × 12
Plate Types	96-well plates
Data Connection	USB
Cell Washing	No
Bottles	Non-pressurized
Display	LCD Color Display, 4.3 in.
Wash Volume	50 to 1000 µL
Prime Volume	5 to 100 mL
Rinse Volume	50 to 100 mL
Dispense Volume	50 to 400 µL
Residual Volume	<1.5 µL
Dimensions	34.5 × 38.5 × 24 cm (13.6 × 15.2 × 9.4 in.)
Weight	9 kg (20 lbs.)

Cat. No.	Description
5165000	Wellwash

Thermo Scientific Wellwash Versa Microplate Washer

With its superior versatility, the Wellwash Versa Microplate Washer is easy to use for ELISA and cell washing applications in research and routine laboratories.

The Thermo Scientific Wellwash Versa washer offers ease of use and convenience through a graphical user interface, local language versions and a USB port. Designed for high performance and versatility, it provides reliable and secure washing of 96- or 384-well plates, as well as sensitive cell washing.

The Wellwash Versa washer is ideal for research work. It includes two wash bottles and one rinse bottle, and the ability to select single or double 8- or 12-way wash heads, a double 8-way cell wash head, or a single 16-way wash head.

Details

Easy and convenient to use

- Large color display and keyboard for easy operation
- Clear display shows everything on one screen
- Intuitive user interface supports fast protocol development
- Easy-to-use software requires minimal training for quick startup

Reliable and secure performance

- Unpressurized bottles are safe and secure to use
- Liquid level sensors are present in both wash and waste bottles
- Automatic rinse and prime features provide safe performance
- An aerosol cover prevents aerosolization of infectious diseases
- Plate sensor recognizes presence of plate

Find best practices in washing at www.thermoscientific.com/wellwash

Optimal washing performance

- Sweep mode ensures an extremely low residual volume in the well, resulting in reliable assay results
- Washing performance is further optimized by adjustable parameters, such as dispense and aspiration height and aspiration speed

Added versatility

- USB flash memory stick transfers protocols between two or more washers, and facilitates easy internal software updates and downloading of log files and reports
- Specially-designed wash is available for cell washing
- Choose from double 2 x 8 and 2 x 12 wash heads, 1 x 16 wash head, and two wash bottles and one rinse bottle for application flexibility

Recommended for: ELISA-based assays, cell washing

Includes: 2 x 2 L wash bottles, 1 x 2 L rinse bottle, 1 x 4 L waste bottle, 2 x 8 wash head, aerosol cover

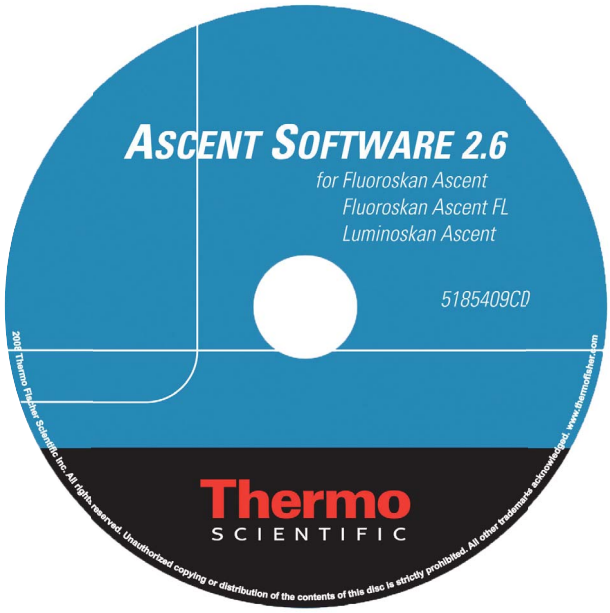
Warranty: One year

Specifications	
Number of Wash Bottles	Up to 3
Wash Heads (Optional)	1 × 8, 1 × 12, 2 × 8, 2 × 12,1 × 16, 2 × 8 cell
Plate Types	96-well, 384-well plates
Data Connection	USB, RS-232-C
Cell Washing	Yes
Bottles	Non-pressurized
Display	LCD Color Display, 4.3 in.
Wash Volume	50 to 1000 µL (96), 20 to 300 µL (384)
Prime Volume	5 to 100 mL
Rinse Volume	5 to 100 mL
Dispense Volume	50 to 400 µL (96), 20 to 120 µL (384)
Residual Volume	<1.5 µL
Dimensions	34.5 × 38.5 × 24 cm (13.6 × 15.2 × 9.4 in.)
Weight	9 kg (20 lb.)

Cat. No.	Description
5165010	Wellwash Versa

Increase throughput with a RapidStak Automated Microplate Stacker

Thermo Scientific Ascent Software



Ascent* Software offers a flexible, easy-to-use way to control all models of the Ascent microplate reader family.

Ascent Software can be used with the following instruments:

- Fluoroskan Ascent
- Fluoroskan Ascent FL
- Luminoskan Ascent
- Multiskan EX

Ascent Software has been designed to operate on all microplate instruments belonging to the Ascent family, including fluorometers, luminometers and photometers. It features a clear and easy-to-follow approach with highly visual assay protocol setup, user-friendly data handling, and effective integration to automation and LIMS systems.

Details

Ascent Software is divided into two desktops: The Procedure Desktop controls the instrument actions and allows visual, easy setup of even the most complicated assays. The Results Desktop enables data to be reduced, calculated and reported according to assay requirements.

- Almost any assay can easily be created by selecting and adding the desired assay steps to the steplist
- Each step, such as Measure, Incubate or Shake, corresponds to an instrument action
- There can be up to 99 steps in one single assay
- Comprehensive in-built calculations, including Blank Subtraction, Curve Fit and Kinetic Data Reduction, are available
- The function tool can be used to create any customized calculation
- The Remote Control Interface enables easy integration with robotics and HIS/LIMS systems

Cat. No.	Description	Port
5185410CD	Fluoroskan Ascent and Fluoroskan Ascent FL	Serial port
5185430CD	Multiskan EX	Serial port
5185450CD	Luminoskan Ascent	Serial port

Thermo Scientific SkanIt Software

SkanIt* Software is the ultimate tool for both microplate reader control and data handling.

Two editions of SkanIt Software are available: A Research Edition for scientists working in life science research, and a Drug Discovery Edition, offering features needed for compliance with the FDA's 21 CFR Part 11, for the drug discovery industry.

SkanIt Software is compatible with the following Thermo Scientific Microplate Readers: Varioskan Flash spectral scanning multimode reader, Multiskan GO spectrophotometer, Multiskan FC filter-based photometer, Multiskan Spectrum spectrophotometer and Appliskan filter-based multimode reader. This powerful software supports optimal use of the instrument's features and provides visual workflow, plus effortless data reduction with built-in calculations.

Details

- Create new protocols by adding steps to the steplist; each step corresponds to an instrument action (e.g. dispense, measure)
- For multi-label assays, several wavelengths can be measured almost simultaneously
- Follow real-time spectral scanning and kinetic curves during the measurement
- Select from a variety of built-in calculations, or create custom calculations
- Export data easily either manually or automatically
- Create comprehensive reports
- Remote control interface provides easy integration with LIMS and automated systems

Cat. No.	Description	Port
5187100	SkanIt Software for Multiskan FC, Research Edition	USB
5187080	SkanIt Software for Varioskan Flash, Research Edition	Serial port or USB
5187030	SkanIt Software for Multiskan Spectrum, Research Edition	Serial port
5187060	SkanIt Software for Appliskan, Research Edition	Serial port
5187119	SkanIt Software for Multiskan GO, Research Edition	USB
5187090	SkanIt Software for Varioskan Flash, Drug Discovery Edition	Serial port or USB
5187040	SkanIt Software for Multiskan Spectrum, Drug Discovery Edition	Serial port

Nucleic Acid Purification and Electroporation

Flexible KingFisher systems deliver high purity yields with quality results

Thermo Scientific KingFisher systems offer a rapid, automated and reproducible purification workflow by using magnetic rods to move particles through the purification phases of binding, washing and elution. After sample lysis, nucleic acids bind efficiently with coated magnetic beads in a suitable buffer. Washing then eliminates contaminants and elutes high purity DNA or RNA into the adjustable volume of elution buffer.

By eliminating laborious manual steps and purification problems, such as filter clogging and risk of contamination, the KingFisher system produces consistent, high purity yields over multiple experiments.

Nucleic Acid Purification

Thermo Scientific KingFisher Flex Magnetic Particle Processors

The KingFisher* Flex System offers highly versatile, automated magnetic particle processing for DNA/RNA, protein or cell purification from virtually any source.

The KingFisher Flex Magnetic Particle Processor is a truly flexible solution for various sample processing requirements. With the 24 configuration, customers can raise the processing volume up to 5 mL, producing an increased yield of the purified product. For higher throughput needs, 96 samples can be processed with the 96 magnet head.

Using our revolutionary magnetic particle separation technology, the KingFisher Flex processor provides the fastest and easiest method for sample preparation, with excellent reproducibility and quality from a variety of sample materials.

Thermo Scientific KingFisher Kits enhance our unique nucleic acid purification workflow, providing an optimized high-throughput method for outstanding flexibility.

Recommended for: Genomics and proteomics, target identification, veterinary assays, biomarker discovery and quality control

Warranty: One year

Details

- Fully automated, high-speed purification of nucleic acids, proteins and cells
- High throughput: Up to 96 samples can be processed in under 20 minutes
- Expanded sample volume with 24 configuration increases the yield by ten-fold
- Open and flexible system allows use of any magnetic particle based kit to meet application demands
- Easy-to-use BindIt software provides instrument control, protocol creation and modification
- Optimized purification protocols and instructions for KingFisher Kits are available at www.thermoscientific.com/kingfisher

Specifications	
Processing Volumes	24: 200 µL to 5 mL; 96: 20 to 1000 µL
Capacity	96 or 24 samples/run
Collection Efficiency of Particles	≥95%
Particle Size	ca. >1µm
Magnetic Rods	24 or 96 in one frame; Interchangeable magnet heads
Plate Types	24 or 96-well plates: KingFisher 24 deepwell plate (200 to 5000 µL) Microtiter 96 deepwell plate (50 to 1000 µL) KingFisher 96 plate (20 to 200 µL) PCR plate (20 to 100 µL)
Heating Temperature	From 4°C above ambient temperature to 96°C
Keyboard Display	START / PAUSE / STOP / OK / TURNTABLE ROTATING CLOCKWISE / TURNTABLE ROTATING COUNTERCLOCKWISE / four cursor keys / LCD
Dimensions (H × W × D)	26.8 × 23.6 × 15 in. (68 × 60 × 38 cm)
Weight	28 kg (62 lb.)

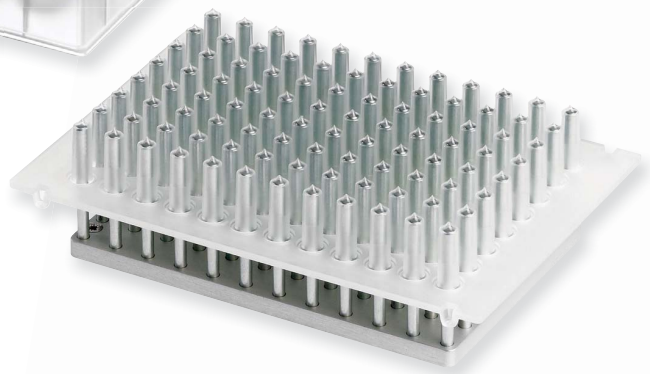
Cat. No.	Description
5400610	KingFisher Flex with 96 PCR head
5400620	KingFisher Flex with 96 KF head
5400630	KingFisher Flex with 96 deepwell head
5400640	KingFisher Flex with 24 deepwell head

Thermo Scientific Consumables for KingFisher Flex Systems

The Consumables for KingFisher Flex Systems are designed specifically to maximize the value of these instruments.

The KingFisher Flex system is compatible with KingFisher 24 Deepwell plates, Microtiter 96 Deepwell plates, KingFisher 96 plates and fully skirted rigid PCR plates. Specially designed tip combs that protect the magnets during the process are available for various plate types and applications.

KingFisher Flex instruments utilize disposable plastics made of polypropylene. The plastics – tip combs and microplates – are ideal for magnetic particle processing due to their low binding affinity for biomolecules. The special design enables excellent recovery of magnetic beads.



See a complete line of KingFisher Kits in this catalog for:

- Blood DNA
- Total RNA
- Cell and Tissue DNA
- Viral NA
- Plant DNA

Cat. No.	Description	For Use with
95040450	Microtiter Deepwell 96 plate	KingFisher Flex with 96 deepwell head
97002514	96-tip comb for PCR magnet	KingFisher Flex with 96 PCR head
97002524	96-tip comb for KF magnets	KingFisher Flex with 96 KF head
97002534	96-tip comb for DW magnets	KingFisher Flex with 96 deep well head
97002610	KingFisher Flex 24 deepwell tip comb and plate	KingFisher Flex with 24 deep well head
97002540	96 KF microplate (200 µL)	KingFisher Flex with 96 KF head, KingFisher Flex with 96 deep well head
95040470	KingFisher Flex 24 deepwell plate	KingFisher Flex with 24 deep well head

Thermo Scientific KingFisher mL Magnetic Particle Processors

The KingFisher mL System introduces automated, low-throughput sample preparation into your laboratory workflow.

KingFisher mL magnetic particle processor is the best choice for higher processing volumes, up to 1 mL. It allows all purification steps to be carried out in a single strip of five tubes and 15 samples processed per run. With the capability of releasing target molecules as low as 50 µL, samples like DNA or RNA from larger starting volumes can be isolated and concentrated simultaneously.

Thermo Scientific KingFisher Kits complete the unique nucleic acid purification workflow, providing an optimized high-throughput method for exceptional flexibility.

Details

Based on the innovative technology of transferring magnetic particles instead of liquids, the KingFisher mL processor offers rapid and reproducible purification of high-quality DNA, RNA, proteins and cells for various types of downstream applications.

- High-speed purification of nucleic acids, proteins and cells
- Open and flexible system allows the use of any magnetic particle based kit to meet their application demands
- Easy-to-use BindIt Software provides instrument control, protocol creation and modification
- Optimized purification protocols and instructions for KingFisher Kits are available at www.thermoscientific.com/kingfisher

Warranty and Service Offering: One year

Recommended for: Genomics and proteomics, drug discovery, biomarker discovery, quality control and veterinary assays

Specifications	
Processing Volume	50 to 1000 µL
Capacity	15 samples/run
Collection Efficiency of Particles	≥95%
Magnetic Particle Size	ca. >1µm
Magnetic Rods	3 × 5 format
Vessel Type	Special tube strip, 1 × 5 tubes
Tip Combo	Special design, 1 × 5 format
Keyboard Display	START/STOP/TWO CURSOR KEYS/LCD
Dimensions (W × H × D)	11.4 × 11.4 × 12.2 in. (29 × 29 × 31 cm)
Weight	10 kg (23 lbs.)

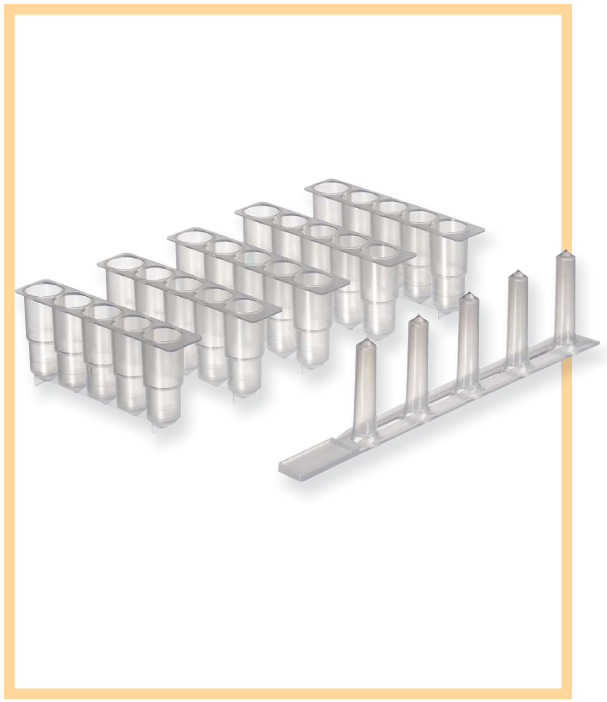
Cat. No.	Description
5400050	KingFisher mL, 100-240V, 50/60Hz

Thermo Scientific Consumables for KingFisher mL Systems

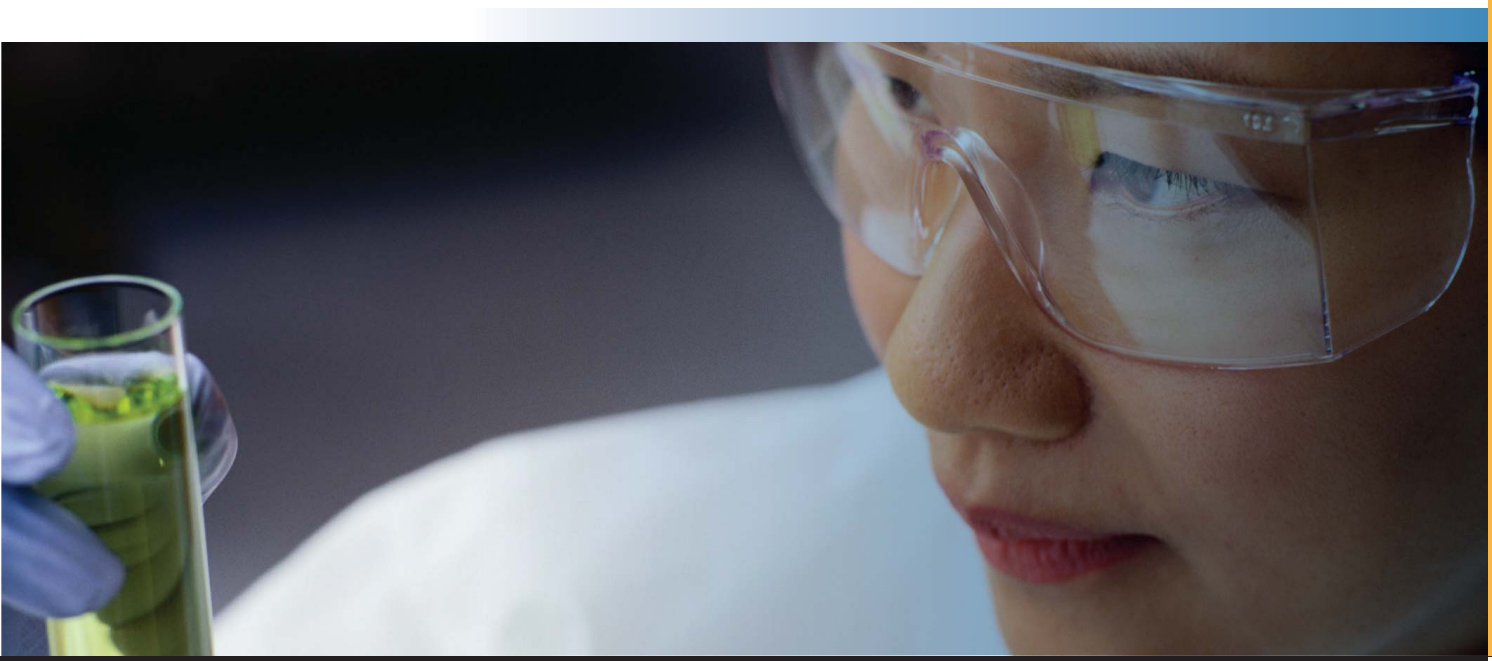
The Consumables for KingFisher mL Systems are made specifically to maximize the value of your KingFisher mL instruments.

The KingFisher mL instrument accommodates a maximum of 15 tube strips, which are compatible with the specially-designed tip comb. Each sample processing operation uses one tube strip containing five tubes; one tip comb with five tips is used for processing five samples at a time.

The KingFisher mL processor utilizes disposable plastics made of high quality polypropylene. The plastics, tip combs and tube strips are ideal for magnetic particle processing due to their low binding affinity for biomolecules. The special design also permits an effective recovery of magnetic beads.



Cat. No.	Description
97002111	KingFisher mL Tip comb, 800 pieces
97002121	KingFisher mL Tube, 20 × 45 pieces
97002141	KingFisher mL Combi 240, tubes and tip combs for 240 samples



Thermo Scientific KingFisher Magnetic Particle Processors

The KingFisher System excels at purifying small-scale samples using magnetic particle processing.

Based on the innovative technology of transferring magnetic particles instead of liquids, the KingFisher Magnetic Particle Processor offers rapid and reproducible purification of high-quality DNA, RNA, proteins and cells for various types of downstream applications.

It is designed to automate the time-consuming sample preparation process of nucleic acids, proteins and cells from virtually any source. All purification steps are carried out in microplates with simple push button operation. Up to 24 samples can be processed per run.

Thermo Scientific KingFisher Kits complete the unique nucleic acid purification workflow, providing an optimized high-throughput method for superior flexibility.

Details

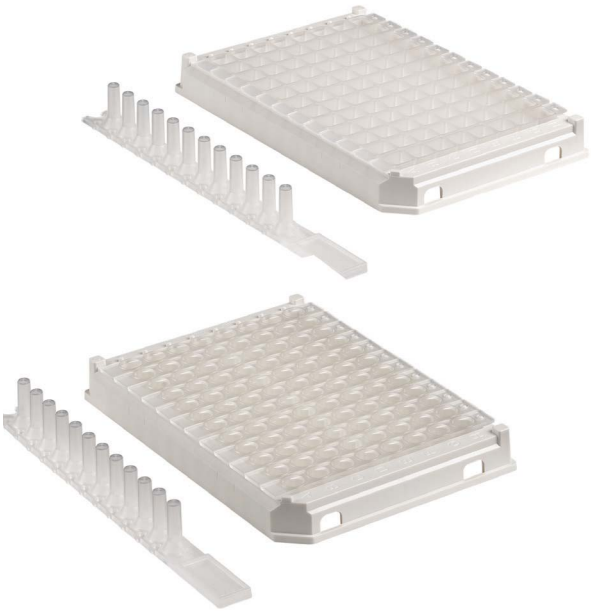
- Ideal for high speed purification of nucleic acids, proteins and cells
- Open and flexible system allows customers to use any magnetic particle based kit to meet their application demands
- Easy-to-use BindIt Software provides instrument control, protocol creation and modification

Recommended for: Genomics and proteomics, drug discovery, biomarker discovery, quality control, and veterinary assays

Warranty: One year

Cat. No.	Description
5400000	KingFisher, 100-240V, 50/60Hz

Specifications	
Processing Volume	20 to 200 µL
Capacity	24 samples/run
Collection Efficiency of the Particles	≥99%
Magnetic Particle Size	ca. >1µm
Magnet Rods	2 × 12 format
Plate Type	Special design, 8 × 12 grid format
Tip Comb	Special design, 2 × 12 format
Keyboard Display	START/STOP/two cursor keys/LCD
Dimensions (W × D × H)	11.4 × 11.4 × 12.2 in. (29 × 29 × 31 cm)
Weight	10 kg (23 lbs.)



Consumables for KingFisher Systems

Designed specifically for use with KingFisher instruments.

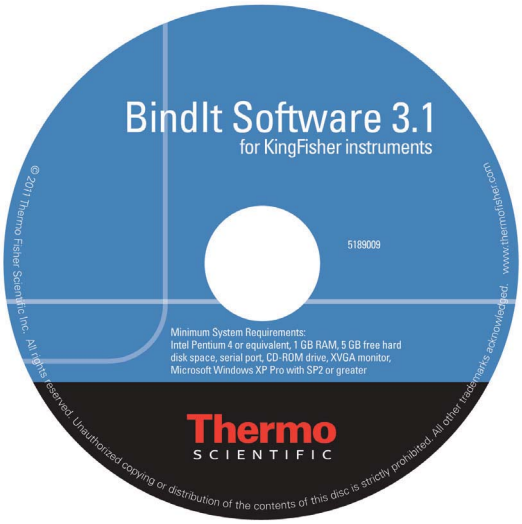
The KingFisher system uses disposable plastics made of high quality polypropylene. The plastics, tip combs and tube strips are ideal for magnetic particle processing due to their low binding affinity for biomolecules. The special design also permits an effective recovery of magnetic beads.

Cat. No.	Description
97002070	KingFisher tip comb
97002080	KingFisher plate 100 µL
97002084	KingFisher plate 200 µL

Thermo Scientific BindIt Software for KingFisher Instruments

The BindIt Software Version 3.1 is a versatile tool for protocol creation, modification and control of KingFisher instruments.

Thermo Scientific BindIt Software has been designed to enable the development of custom-made protocols for custom applications. BindIt Software provides an easy-to-use graphical user interface that accelerates user productivity.



Details

- Protocols are created and stored in a PC database using BindIt Software
- Once a protocol has been created, the protocol can either be transferred to the KingFisher instrument memory or executed directly from the software
- Protocols run directly from the software are not stored in instrument memory
- Based on a steplist, the parameters for the active step are shown on the screen
- All steps have default parameters that can be changed according to the demands of the application
- Plates and reagents used are defined in the plate layout
- BindIt Software generates a status report, including the run log, plate layout and step parameters for QC purposes
- It enables the KingFisher Flex particle processor to interface with liquid handling, robotics and plate stacking instruments, providing a fully automated solution and the highest possible throughput

Specifications	
Operating System	Windows XP Professional with Service Pack 2, Windows Vista; 32-bit Edition; Business Edition
RAM	1 GB RAM
Drive	CD-ROM drive
Monitor	XVGA monitor with 1024 by 768 resolution
Port	One serial or USB port available
Free Disk Space	0.5 GB
Browser	Microsoft Internet Explorer 6.0 (or greater) installed

Cat. No.	Description	Includes
5189009	BindIt 3.1 Software for KingFisher instruments	CD only

Thermo Scientific KingFisher Kits

The KingFisher Kits complete the unique nucleic acid purification workflow, providing an optimized high throughput method for superior flexibility.

The KingFisher Nucleic Acid Purification Kits, together with the KingFisher magnetic particle processor and consumables, enable the rapid and reproducible purification of high quality DNA or RNA from a wide variety of materials. The superior performance of KingFisher Kits produces DNA or RNA that is free of inhibitors and is ready for use in many downstream applications. Easy-to-use protocols facilitate safe sample handling as well as minimal user input, maximizing walk-away time.


Blood DNA


Total RNA


Cell and Tissue DNA


Viral NA


Plant DNA

Details:

- Excellent performance and consistent results: Optimized to produce high yields of quality DNA or high integrity RNA
- Suitable for wide range of sample materials
- Large volume sample input possible with KingFisher Blood DNA Kit: Up to 3 mL of blood per sample
- Flexible throughput from one sample to up to 96 samples per run
- Walk-away solution for all throughputs
- Minimized hands-on time increases overall efficiency
- Compatible with most common downstream analysis and applications

All kits contain:

- KingFisher magnetic beads
- Lysis buffer, binding buffer, 2-3 wash buffers and elution buffer
- Kit-specific reagents to enhance performance

Cat. No.	Description	Sample type	Instrument model	Format	Sample input	Samples per run	Reagents sufficient for	Elution volume	Run time/ minutes
97010060	KingFisher Blood DNA kit 60 preps	Fresh or frozen whole blood, treated with EDTA or citrate	KingFisher mL	Tube strip	250 µL	15	60 samples	150 µL*	45
97010196	KingFisher Blood DNA kit 1 × 96 preps	Fresh or frozen whole blood, treated with EDTA or citrate	KingFisher Flex	96 magnet head	250 µL	96	96 samples	150 µL*	< 35
				24 magnet head	3 mL	24	9 samples	500 µL*	60
97020060	KingFisher Total RNA kit 60 preps	Cells and tissues and samples stored in RNA stabilization reagent.	KingFisher mL	Tube strip	Up to 20 mg of tissue, up to 2×10^6 cells	15	60 samples	150 µL*	60
97020196	KingFisher Total RNA kit 1 × 96 preps	Cells and tissues and samples stored in RNA stabilization reagent.	KingFisher Flex	96 magnet head	Up to 20 mg of tissue, up to 2×10^6 cells	96	96 samples	150 µL*	< 60
97030060	KingFisher Cell and Tissue DNA kit 60 preps	Tissue, cells, cultured bacteria	KingFisher mL	Tube strip	Up to 20 mg of tissue, up to 1×10^7 cells, up to 1 mL overnight culture of bacteria	15	60 samples	150 µL*	25
97030196	KingFisher Cell and Tissue DNA kit 1 × 96 preps	Tissue, cells, cultured bacteria	KingFisher Flex	96 magnet head	Up to 20 mg of tissue, up to 1×10^7 cells, up to 1 mL overnight culture of bacteria	96	96 samples	150 µL*	25
97040060	KingFisher Viral NA kit 60 preps	Cell-free body fluids such as serum, plasma, urine. Buccal swabs	KingFisher mL	Tube strip	200 µL	15	60 samples	100 µL*	50
97040196	KingFisher Viral NA kit 1 × 96 preps	Cell-free body fluids such as serum, plasma, urine. Buccal swabs	KingFisher Flex	96 magnet head	200 µL	96	96 samples	100 µL*	40
97050196	KingFisher Plant DNA kit 1 × 96 preps	Fresh, frozen or lyophilized plant tissue and cells, such as leaves, seeds, grains.	KingFisher Flex	96 magnet head	Up to 50 mg of fresh tissue or 10 mg of dried tissue	96	96 samples	150 µL*	< 30

DNA/RNA purified with all KingFisher Kits is suitable for PCR, Real Time PCR and other enzymatic downstream analysis methods
** Recommended elution volume, but user-adjustable*

Cat. No	Description
97010060	KingFisher Blood DNA kit 60 preps for KingFisher mL
97010196	KingFisher Blood DNA kit 1 × 96 preps for KingFisher Flex
97020060	KingFisher Total RNA kit 60 preps for KingFisher mL
97020196	KingFisher Total RNA kit 1 × 96 preps for KingFisher Flex
97030060	KingFisher Cell and Tissue DNA kit 60 preps for KingFisher mL
97030196	KingFisher Cell and Tissue DNA kit 1 × 96 preps for KingFisher Flex
97040060	KingFisher Viral NA kit 60 preps for KingFisher mL
97040196	KingFisher Viral NA kit 1 × 96 preps for KingFisher Flex
97050196	KingFisher Plant DNA kit 1 × 96 preps for KingFisher Flex

Depend on the full range of superior Thermo Scientific solutions...

Cell Culture

Essential products for your cell culture laboratory

Thermo Scientific Nunc cell culture products have been used by researchers worldwide for more than 50 years. We take pride in manufacturing products with consistent high quality to ensure you get the most reproducible and reliable results in your research.

With surface areas ranging from 0.013 cm^2 to 25,280 cm^2, Nunc cell culture products allow for easy scale up when expanding cultures, and our surfaces address most applications.

Molecular BioProducts Electroporation Cuvettes

The durable polycarbonate construction of Molecular BioProducts Electroporation Cuvettes enables them to withstand pulses required by many commonly used electroporators.

Molecular BioProducts electroporation cuvettes are thoroughly cleansed to eliminate trace inhibitor materials, and then sterilized with electronic beam irradiation. Gap tolerances are precisely set for reproducible field strength delivery and provide high transformation efficiency.

Details:

- Ideal for bacterial transformation and transfection
- Seamless plastic molding to prevent sample leaking
- Parallel aluminum plates for uniform sample treatment
- Frosted caps for easy labeling
- 1, 2 and 4 mm gap width available with color-coded caps
- Stringent manufacturing process to ensure reproducible results
- Individually wrapped, single-use packaging
- Pre-sterilized transfer pipetter included in the package to facilitate sample transfer

Cat. No.	Description	Unit Packaging
5510	1 mm gap (Pre-sterilized, white cap)	50 cuvettes
5520	2 mm gap (Pre-sterilized, blue cap)	50 cuvettes
5540	4 mm gap (Pre-sterilized, green cap)	50 cuvettes

PCR and Real-Time PCR Instruments and Consumables

For genomics and related research, dependable thermal cyclers and high-quality consumables are the keys to productivity and success.

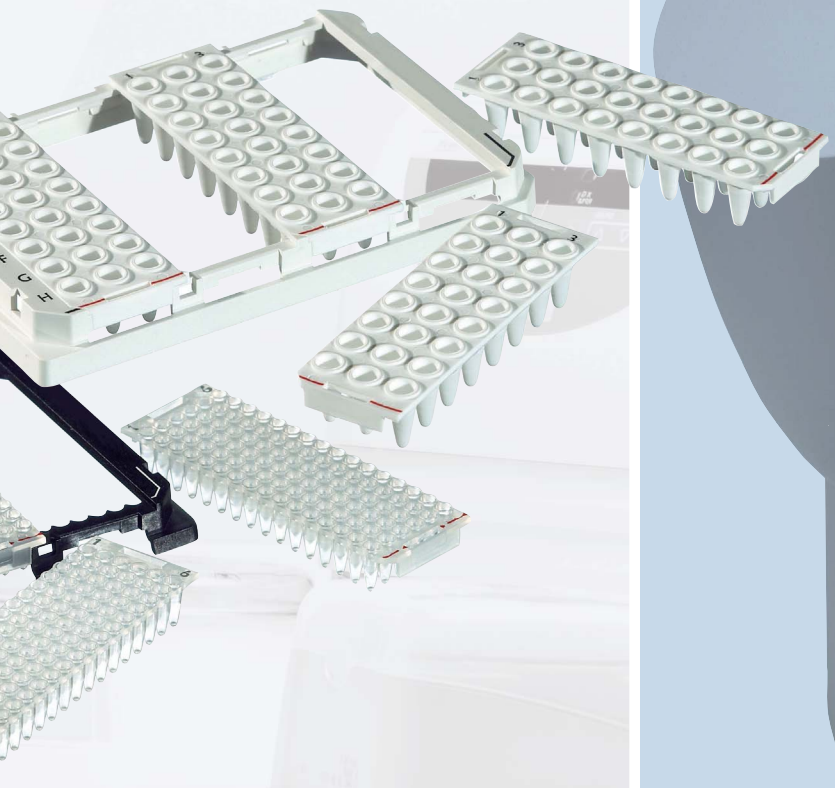
Thermo Scientific PCR products provide a range of PCR solutions for superior results.

Thermo Scientific Arktik and Piko thermal cyclers offer unparalled performance and reliability for end-point PCR, whether working with individual reactions or high-throughput projects.

The PikoReal Real-Time PCR system is a highly compatible platform for personal bench top use, combining high performance and outstanding features.

Our ultra-thin wall tubes and plates represent the fast generation of PCR consumables, bringing significantly improved performance in fast PCR and realtime PCR assays. In combination with high quality UTW consumables, PCR and qPCR reactions are performed with high consistency, reduced reaction time, and less consumption of plastics and reagents.

PCR and Real-Time PCR Instruments and Consumables



Thermo Scientific Arktik Thermal Cycler

The Arktik* Thermal Cycler is a reliable and flexible PCR instrument for the everyday requirements of any laboratory.

The Arktik Thermal Cycler is suitable for a wide range of applications, from individual reactions to high-throughput projects. It offers flexibility with three different interchangeable blocks: 96-well block, 384-well block and a dual block with two 48-well units. A broad temperature gradient simplifies temperature optimization. Ease-of-use is the key feature of the Arktik Thermal Cycler's user interface. The protocol is displayed graphically, and the programming is simple with intuitive menus.

Details

- **Interchangeable blocks** with excellent thermal precision
- **Dual 48-well block** for multi-user option
- Broad (up to 30°C) and accurate temperature gradient†
- **Reliable and easy to use**, with low noise level
- **Over-tightening protection** system in the heated lid
- Accepts virtually all standard PCR plastics

Ordering Alerts: Purchase of a heat block is required for operation of the Arktik Thermal Cycler.

Recommended for: PCR

Specifications	
Size (W × D × H)	29 × 38 × 29 cm
Weight	10.5 kg
Power Requirements	100-240V, 50-60Hz
Block Configurations	96 × 0.2 mL, 384 × 0.03 mL, 2 × 48 × 0.2 mL (dual block) Interchangeable
Max. Ramp Rate	Up to 3°C per second
Thermal Uniformity	±0.4°C at 90°C
Thermal Accuracy	±0.3°C
Thermal Range	4 to 99.9°C
Gradient Range†	Max. 30°C
User Interface	Semi-graphical
Number of Programs	4950
Heated Lid	Manually adjustable, over-tightening protection system
Warranty	Two years

Cat. No.	Description
TCA0001	Arktik Thermal Cycler base unit with gradient†
TCA0002	Arktik Thermal Cycler base unit without gradient
TCA0096	96-well block
TCA4848	Dual block (2 × 48 wells)
TCA0384	384-well block

† Gradient feature not available in the U.S. and Germany.

This product is licensed under U.S. Patent Nos. 5,552,580 and 5,496,517.
Notice: Purchase of this instrument conveys a limited, non-transferable immunity from suit for the purchaser's own internal research and development and applied fields other than human in vitro diagnostics under one or more of Canadian Patent 1,339,653, U.S. Patent 5,475,610 (claims 160-163 only) or corresponding claims in their unexpired non-U.S. counterparts owned by Applied Biosystems.

Thermo Scientific Piko Thermal Cycler

The Piko* Thermal Cycler delivers top performance with twice the speed and just half the size of regular thermal cyclers.

The Piko Thermal Cycler delivers high performance in a compact package. At just half the size of other PCR instruments, the Piko Thermal Cycler meets the highest criteria in thermal performance and can complete a PCR protocol in less than 15 minutes. This is achieved using unique technical advances that allow significant reduction in PCR run times and overall size of the instrument. The Piko Thermal Cycler is an ideal solution for both conventional and fast PCR applications. Piko Thermal Cyclers are available with two different block configurations: 24-well and 96-well. The 24-well cyclers accept all standard low profile single tubes, 8-tube strips and 24-well Piko PCR Plates. The 96-well instrument utilizes 96-well Piko PCR Plates.

Details

- **Superior thermal performance:** Consistent results from well-to-well due to extremely short settling times and high temperature uniformity across the block
- **Time saving:** PCR in as little as 15 minutes enabled by fast ramp rates and quick settling times
- **Reagent saving:** Repeatable yields from as little as 5 µL when using UTW vessels and heat sealers
- **Space saving:** One of the smallest footprints available, fits into a tiny bench space
- **Energy saving:** Short protocols and low wattage require only 25% of the power consumption of typical thermal cyclers
- **Repeatable sealing prevents sample evaporation:** Automatic heated lid provides consistent and tight sealing from run to run

Recommended for: PCR, High Performance PCR

Specifications	
Size (W × D × H)	16 × 17 × 23 cm
Weight	4 kg (with external power supply)
Power Requirements	100-240V, 50-60Hz
Block Configurations	24-well (well volume 0.225 mL, sample volume max. 50 µL) 96-well (well volume 0.05 mL, sample volume max. 20 µL)
Max. Ramp Rate	>5°C heating and >4.5°C cooling
Typical Thermal Uniformity	±0.3°C
Thermal Accuracy	±0.2°C
Thermal Range	4-99.9°C
User Interface	Semi-graphical and list mode programming
Number of Programs	Over 1000
Heated Lid	Fully automated and motorized function
Warranty	Two years

Cat. No.	Description
TCP0024	Piko Thermal Cycler, 24-well
TCP0096	Piko Thermal Cycler, 96-well

Significant savings compared to conventional cyclers:

- 81% less energy consumed
- 71% less plastics used

This product is licensed under U.S. Patent Nos. 5,552,580 and 5,496,517.
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Thermo Scientific PikoReal Real-Time PCR System

The PikoReal* Real-Time PCR System offers excellent performance in a small footprint.

The PikoReal Real-Time PCR System is a highly compatible gene quantification and genotyping platform in 24- and 96-well block formats.

The system is designed for a minimal footprint, making it ideal for personal benchtop use and field applications.

The PikoReal Real-Time PCR System incorporates innovative technologies to achieve fast performance while meeting the highest thermal requirements – all with reduced energy, plastics, and reagent consumption for real cost savings.

It also uses Ultra Thin Wall (UTW) microwell plates that are 25 percent the size of conventional microwell plates, yet compatible with multichannel pipetters, reagent dispensers and automated liquid handling systems.

Details

- **Five detection channels** enabling up to four-target multiplexing
- **High temperature uniformity** over the wells throughout the temperature range
- **Minimal footprint** for personal benchtop use
- **Piko format design** for significant savings in plate and reagent consumption
- **Automatic heated lid** for optimal temperature and sealing pressure
- **Remote control and monitoring** over Ethernet connection or stand-alone control using USB flash drives

Recommended for: Gene quantification and genotyping

Specifications	
Thermal Block Formats	24-well, 96-well (not interchangeable)
Sample Volume, Thermal Block	10 to 50 µL (PikoReal 24), 5 to 20 µL (PikoReal 96)
Consumables, Thermal Block	24-well or 96-well Piko PCR Plate; for 24-well block ; also 8-well strips and 0,2 mL single tubes
Max. Heating Rate, Thermal Block	>5°C/sec
Max. Cooling Rate	4.5°C/sec
Temperature Range, Thermal Block	4 to 99.9°C
Temperature Accuracy, Thermal Block	±0.2°C
Temperature Uniformity, Thermal Block	±0.3°C at 95°C
Temperature Range, Heated Lid	30 to 110°C
Control, Heated Lid	Automatic temperature and pressure setting
Excitation	5 LEDs
Excitation Range	475 to 640 nm
Pre-Calibrated Dyes	FAM, SYBR Green, HEX, Yakima Yellow, ROX, Texas Red, Cy 5, SYBR Green for HRM (during 2011)
Multiplex	Up to 4 targets
Dynamic Range	10 orders of magnitude
Sensitivity	1 copy (theoretical)
Scan Time for Four Multiplexing Channels	<10 sec
Software Analysis Modes	Absolute quantification; relative quantification; melt curve analysis; allelic discrimination, high resolution melting (during 2011)
Operating Systems	Windows XP, Windows 7
Communication	Ethernet (up to 10 instruments can be operated from a single PC) or stand-alone control with USB flash drive
Power Usage	200W maximum
Dimensions (W × D × H)	300 × 230 × 310 mm
Weight	10 kg

Cat. No.	Description
TCR0024	PikoReal 24-well Real-Time PCR System
TCR0096	PikoReal 96-well Real-Time PCR System

Not available in U.S. before May 2011

Not available in Canada, Brazil, U.K., Germany, Austria, Switzerland, Italy, Spain, France, Belgium, The Netherlands, Luxemburg, Denmark and Sweden before May 2012

This product is licensed under U.S. Patent Nos. 5,552,580 and 5,496,517.
Notice: Purchase of this instrument conveys a limited, non-transferable immunity from suit for the purchaser's own internal research and development and applied fields other than human in vitro diagnostics under one or more of Canadian Patent 1,339,653, U.S. Patent 5,475,610 (claims 160-163 only) or corresponding claims in their unexpired non-U.S. counterparts owned by Applied Biosystems. The purchase of this product includes a limited, non-transferable license under specific claims of U.S. Patent Nos. 6,174,670, 6,569,627 and 5,871,908, owned by the University of Utah Research Foundation or Evotec Biosystems GmbH and licensed to Idaho Technology, Inc. and Roche Diagnostics GmbH.

Thermo Scientific Piko PCR Plates

The Ultra Thin Wall Technology in these tubes and plates represents the fast generation of PCR consumables, delivering significantly improved performance in fast PCR and real-time PCR assays. Each well wall is approximately 50 percent thinner than standard thin-walled tubes and plates. This further reduces the thermal barrier to heat flow into and out of the PCR sample, resulting in faster and more robust reactions.

Individual Tubes with Flat Caps

- Caps form a secure seal, yet are easy to open and close
- Ultra Thin Wall low profile available for fast PCR applications, such as with the Piko Thermal Cycler

Low Profile Strip Tubes with Attached Ultra-Clear Flat Caps†

- PCR strip tubes with separate caps for easy sample access
- Compatible with Piko thermal cyclers
- Ultra Thin Wall for fast PCR applications
- Low profile reduces dead space and increases PCR efficiency
- Ultra-clear flat caps ideal for use in qPCR assays

Piko PCR plates

- Modular Ultra Thin Wall PCR plates for Piko Thermal Cyclers
- Four plates, each the size of a microscope slide, can be reversibly snapped into a rigid frame, producing the equivalent of a standard 96-or 384-well microplate

Details

- Wall thickness is 50 percent of conventional thin-walled tubes
- Flexible format saves cost and reduces waste
- Compatible with standard multichannel pipetters and liquid handlers
- Well spacing and footprint correspond to industry (ANSI) dimensions
- Available in clear and white

Recommended for: PCR, Fast PCR, High Performance PCR

Cat. No.	Color	Reaction Volume	Quantity
Individual Tubes with Flat Caps			
TUC0010	Clear		960 tubes
TUC0011	White		960 tubes
Low Profile Strip Tubes with Attached Ultra-Clear Flat Caps			
TUC0080	Clear		250 strips
TUC0081	White		250 strips
24-Well PCR Plate			
SPL0240	Clear	50 µL	200 plates
SPL0241	White	50 µL	200 plates
96-Well PCR Plate			
SPL0960	Clear	20 µL	200 plates
SPL0961	White	20 µL	200 plates
Plate Frame			
SFR0241	White	n/a	50 plates
SFR0961	White	n/a	50 plates

† *Not available in U.S.*

Thermo Scientific Piko Plate Illuminator

The Piko Plate Illuminator simplifies sample loading.

The Piko Plate Illuminator plate rack is state-of-the-art and provides a simple way to track the loading of reactants by illuminating the target well(s) from below with white LED lights.

- **Compatibility:** works with all standard single channel, 8-channel and 16-channel pipetters
- **Ease of use:** compact and easy-to-use instrument with pre-programmed loading patterns
- **Two-in-one design:** both 24-well and 96-well Piko PCR Plates fit into the rack

Recommended for: Sample handling, sample preparation

Specifications	
Dimensions (W × D × H)	16 × 9 × 3 cm
Weight	0.1 kg
Vessel Types	24-well and 96-well Piko PCR Plates
Programs	10 preset and user-selectable loading patterns
Power Requirements	100-240V, 50-60Hz

Cat. No.	Description
PIP2496	Piko Plate Illuminator

Sealing Films for Piko

The Thermo Scientific optical adhesive sealing film is the perfect fit for Piko PCR Plates.

Details

- Optical clarity with minimal autofluorescence
- Tight sealing for sample volumes as low as 5 µL
- Easy application without costly sealing devices
- Cryo-compatible adhesive is effective to -70°C

Recommended for: PCR, real-time PCR, qPCR, high performance PCR

Cat. No.	Description	Quantity
ASF0020	Adhesive film	400 seals/Cs
TCS1080	8 Caps per strip	120 strips
HSF0021†	Heat sealing film	400 seals/Cs
† For Piko only.		

Biological Safety Cabinets

Depend on the full range of superior Thermo Scientific solutions...

With unique technologies that create a very safe and comfortable working environment, our biological safety cabinets provide best-in-class safety, ergonomics and energy efficiency for today's most demanding laboratory applications.

CO_2 Incubators

Unmatched choice. Advanced technology. Proven results. Our CO_2 incubators deliver innovative market-leading designs and application-based solutions – surrounding your samples with an environment you can trust to achieve your cell culturing goals.

Molecular BioProducts PCR Tubes

Molecular BioProducts PCR Tubes are engineered for consistent and reliable amplifications. Our PCR tubes are designed to provide uniform well contact for selected thermal cyclers. All products are free of RNase, DNase, DNA, ATP and endotoxins.

3412A *3414A* *3430A* *3432*

Details

- Secure seal lips prevent evaporation
- Thin-wall design for optimal heat transfer
- 100 percent virgin polypropylene for high clarity
- Packaged in puncture-proof bags for extra protection
- ZipLock* closure for easy resealing
- 10 individually sealed bags of 100 tubes to minimize cross contamination
- Available in both 0.2 and 0.5 mL sizes and assorted colors
- Special color packs available
- Specify desired color by adding the corresponding letter to the catalog number. Assorted colors are randomly selected. B-Blue, G-Green, O-Orange, P-Purple, R-Red, Y-Yellow, A-Assorted. Example: 3414B is 0.2 mL tubes in blue.

Cat. No.	Description	Volume	Unit Packaging
3412	Thin-wall tubes with flat caps (Natural)	0.2 mL	10 bags, 10 tubes/bag
3412A	Thin-wall tubes with flat caps (Assorted colors)	0.2 mL	10 bags, 10 tubes/bag
3414	Thin-wall tubes with dome caps (Natural)	0.2 mL	10 bags, 10 tubes/bag
3414A	Thin-wall tubes with dome caps (Assorted colors)	0.2 mL	10 bags, 10 tubes/bag
3430	Thin-wall tubes with flat caps (Natural)	0.5 mL	10 bags, 10 tubes/bag
3430A	Thin-wall tubes with flat caps (Assorted colors)	0.5 mL	10 bags, 10 tubes/bag
3432	Thin-wall tubes with dome caps (Natural)	0.5 mL	10 bags, 10 tubes/bag
3432A	Thin-wall tubes with dome caps (Assorted colors)	0.5 mL	10 bags, 10 tubes/bag

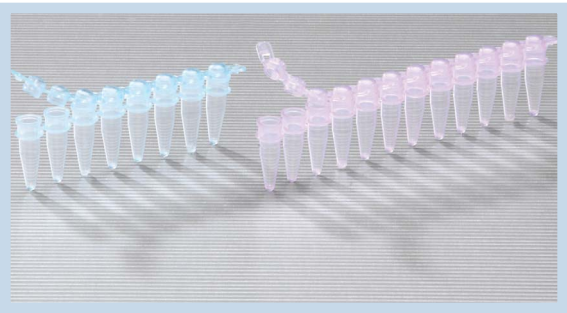
Molecular BioProducts PCR Plates and Caps

Molecular BioProducts PCR Plates are compatible with all major thermal cyclers. They are molded under clean room conditions and individually wrapped to prevent contamination.

Details

- Fits tightly inside thermal cyclers
- Alphanumeric grid for sample tracking
- Elevated rims for sturdy non-flexing performance
- Plates are individually wrapped to prevent cross contamination

Cat. No.	Description	Unit Packaging	Volume
3416	96-well PCR thin-wall plate (Natural)	25 plates	0.2 mL
3418C	8-PCR strip dome caps (Natural)	10 bags, 12 strips/bag	n/a
3417C	12-PCR strip dome caps (Natural)	10 bags, 8 strips/bag	n/a
3481	Adhesive plate sealing tape (Clear)	100 sheets	n/a



Molecular BioProducts PCR Strip Tubes and Caps

These PCR Strip Tubes and Caps are designed for easy reaction setup and reliable PCR amplications. Under our stringent injection molding conditions, each cap perfectly aligns and fits to the corresponding tube on the strip.

Details

- Caps and tubes align and fit tightly in either direction
- Thin-wall allows effective heat transfer
- Available in natural and assorted colors
- Compatible with major thermal cyclers
- Specify desired color by adding the corresponding letter to the catalog number.
- Assorted colors are randomly chosen. B-Blue, G-Green, O-Orange, P-Purple, R-Red, Y-Yellow, A-Assorted. Example: 3418B is 8-PCR strip tubes in blue.

Cat. No.	Description	Unit Packaging	Volume
3418	8-PCR strip tubes (Natural)	10 bags, 12 strips/bag	0.2 mL
3418A	8-PCR strip tubes (Assorted colors)	10 bags, 12 strips/bag	0.2 mL
3418C	8-PCR strip dome caps (Natural)	10 bags, 12 strips/bag	n/a
3417	12-PCR strip tubes (Natural)	10 bags, 8 strips/bag	0.2 mL
3417C	12-PCR strip dome caps (Natural)	10 bags, 8 strips/bag	n/a

Molecular BioProducts DNA AWAY Surface Decontaminant

Molecular BioProducts DNA AWAY* surface decontaminant eliminates unwanted DNA and DNase from glassware and plasticware without affecting subsequent DNA samples. It is ideal for removing DNA contamination from pipetters, PCR tube racks and bench surface prior to PCR set-up.

Details

- Degrades DNA more quickly and effectively than autoclaving
- Suitable for gel boxes, pipetters, benchtops, thermal cyclers and other equipment
- Use before performing PCR for a DNA-free work area
- Simply apply the ready-to-use formula to the surface to decontaminate, then wipe dry or rinse clean with water

Cat. No.	Description
7010	250 mL bottle
7008	Canister of 25 wipes
7009	Box of 35 individually wrapped wipes

Molecular Bioproducts RNase AWAY Surface Decontaminant

Molecular BioProducts RNase AWAY* formulation and wipes eliminate RNase from laboratory surfaces and prevent degradation of your precious RNA samples.

RNase AWAY decontaminant is ideal for decontaminating equipment and instruments, bench tops, glassware and plasticware. It reduces the dependency on carcinogenic DEPC treatments and saves time needed to bake glassware.

Details

- Use on pipetters, gel boxes or RNA prep areas
- Leaves no residue to interfere with gel polymerization or staining
- Chemically stable and nonabrasive
- Does not contain strong acids
- Apply to surface to decontaminate, then rinse with RNase-free water

Cat. No.	Description
7002	475 mL spray bottle
7003	1 L bottle
7005	4 L bottles
7000	250 mL bottle
7006	Canister of 25 wipes
7007	Box of 35 individually wrapped wipes

Molecular BioProducts EasyStart PCR Mix-in-a-Tube

Molecular BioProducts EasyStart* mix reduces tedious PCR setup protocols to a single step.

EasyStart mix consists of a non-specific PCR reagent mixture hermetically sealed inside a thin-walled reaction tube, reducing the risk of contamination and providing optimum heat transfer. An aqueous solution of enzyme, template DNA and primers is added above the wax layer prior to thermal cycling; as the temperature rises, the wax melts, combining the reagents at the proper cycling temperatures.

Details

- Delivers better specificity and yield than conventionally prepared mixtures
- Compatible with a wide range of enzymes
- Reagent mix contains buffer, dNTPs, $MgCl_2$ and dH_2O in perfect proportion to ensure exceptional batch consistency and reproducible results
- Wax layer provides safe, easy storage of reagent mixture, prevents oxidation and evaporation and eliminates wasted reagents

Storage Conditions:

- Tubes can be stored at ambient temperatures for extended periods
- To remove PCR product, simply pierce the wax layer with a pipette tip

Includes: Choose 0.2 to 0.5 mL volumes; use 0.2 mL tubes for 0.2 mL heating blocks, and 0.5 mL tubes for 0.5 or 0.6 mL heating blocks

Cat. No.	Description	Tube Volume	Reaction Volume
6028	EasyStart Micro 20 (96 reactions)	0.2 mL	20 µL
6228	EasyStart Micro 20 (96 reactions)	0.2 mL	20 µL
6020	EasyStart Micro 50 (96 reactions)	0.2 mL	50 µL
6024	EasyStart Micro 100 (96 reactions)	0.2 mL	100 µL
6022	EasyStart 50 (96 reactions)	0.5 mL	50 µL
6025	EasyStart 100 (96 reactions)	0.5 mL	100 µL

Molecular BioProducts HotStart Storage Reaction Tubes

Molecular BioProducts HotStart* Storage Reaction Tubes are thin-walled with pre-positioned wax bead to eliminate tedious oil or wax overlays.

HotStart Storage Reaction Tubes are ideal for storing pre-aliquoted master mixes in a freezer. To prepare the PCR cocktail, simply melt the wax bead and let it harden over reagents, forming a barrier to keep reagents separate until the annealing temperature is reached in the cycler. The result: significant time savings while achieving dependable reproducibility.

Details

- Bead is stable at room temperature
- Provides synchronous reaction startup, thereby reducing mis-primes, primer dimers, and premature annealing
- Particularly recommended for complex DNA or cDNA, very low copy number targets, more than 30 thermal cycles, multiple PCR or RT-PCR
- After thermal cycling reactions, PCR product can remain in tube for later analysis; simply pierce wax layer with pipette tube to remove product
- Hinged caps provide tight seal
- Pre-sterilized; RNase- and DNase-free

Cat. No.	Description	Tube Volume	Reaction Volume
Tubes			
6002	HotStart 50 (96 reactions)	0.5 mL	25 to 50 µL
6005	HotStart 100 (96 reactions)	0.5 mL	60 to 100 µL
6008	HotStart Micro 20 (96 reactions)	0.2 mL	15 to 25 µL
6010	HotStart Micro 50 (96 reactions)	0.2 mL	25 to 50 µL
6014	HotStart Micro 100 (96 reactions)	0.2 mL	60 to 100 µL
8-Tube Strips			
6208	HotStart Micro 20 Strips (96 reactions with dome caps)	0.2 mL	15 to 25 µL
6210	HotStart Micro 50 Strips (96 reactions with dome caps)	0.2 mL	25 to 50 µL
Bulk-Packed			
6302	HotStart 50 Bulk (480 reactions)	0.5 mL	25 to 50 µL
6305	HotStart 100 Bulk (480 reactions)	0.5 mL	60 to 100 µL
6308	HotStart Micro 20 Bulk (480 reactions)	0.2 mL	15 to 25 µL
6310	HotStart Micro 50 Bulk (480 reactions)	0.2 mL	25 to 50 µL

Microcentrifuge Tubes and Racks

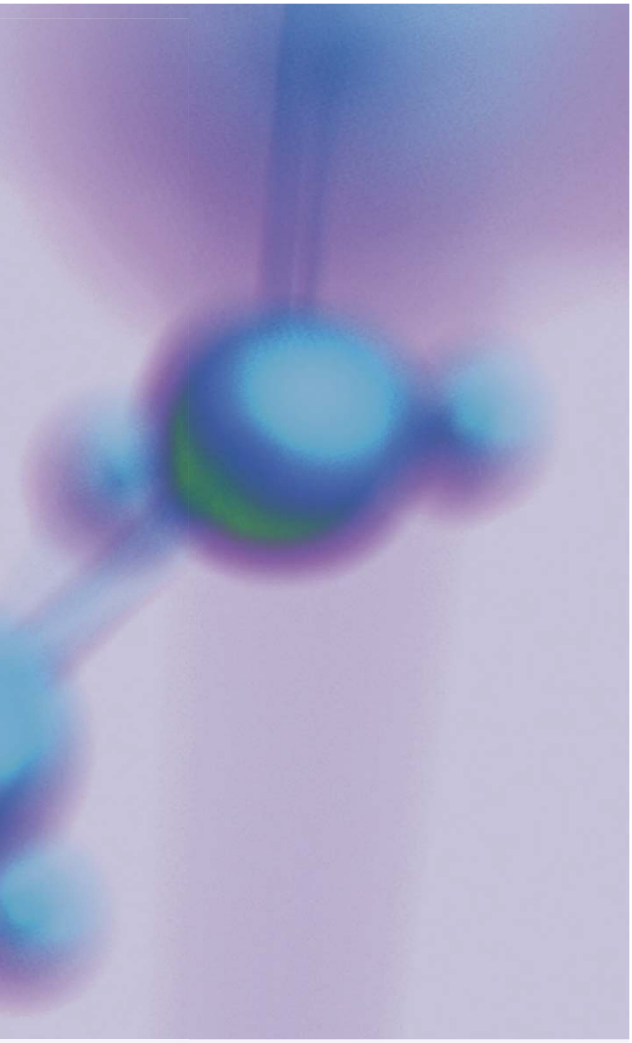
Ideal for all of your sample preparation applications.

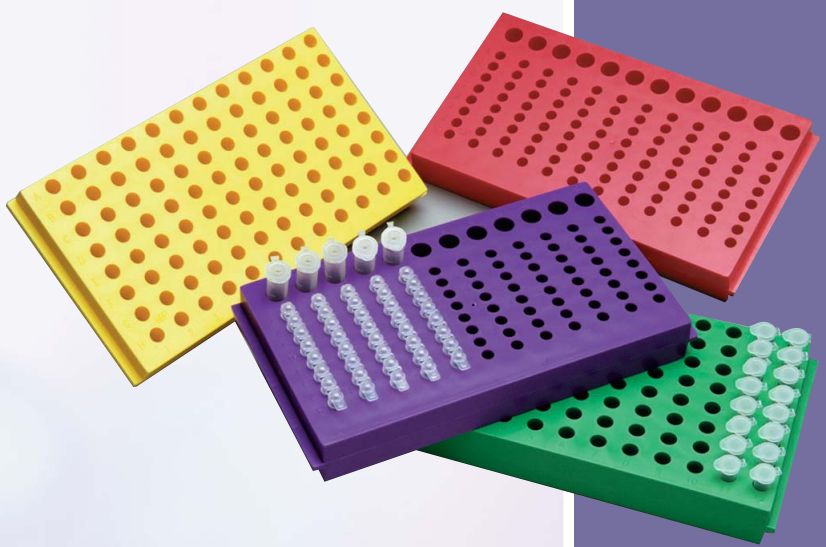
Sample preparation requires proven microcentrifuge tubes and accessories that can be trusted in virtually any application.

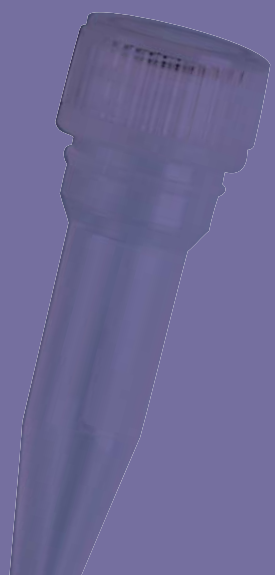
We offer a broad range of tubes in a wide variety of sizes and shapes to meet your needs.

Rated for use up to 30,000 xg and built rugged with the highest quality materials, our products are designed for ease of use and are autoclavable, boil-proof and freezable to -80°C.

Microcentrifuge Tubes and Racks







Snap-Cap Centrifuge Tubes

0.6 mL *1.5 mL* *2.0 mL*

Snap-cap tubes are easy to open and close, offering the most convenient choice for routine laboratory procedures including sample storage, centrifugation and preparation. Autoclavable, boil proof and freezable to -80°C. Made from virgin polypropylene.

Cat. No.	Description	Color	Rated at
3446	0.6 mL, Graduated, Non-Sterile	Natural	30,000 xg
3449	0.6 mL, Graduated, Sterile	Natural	30,000 xg
3448	1.5 mL, Graduated, Non-Sterile	Natural	26,000 xg
3451	1.5 mL, Graduated, Sterile	Natural	26,000 xg
3434	2.0 mL, Graduated, Non-Sterile	Natural	25,000 xg
3453	2.0 mL, Graduated, Sterile	Natural	25,000 xg
Packaging: 0.6 mL available 1000/unit, 10 units/case; 1.5 mL/2.0 mL available 500/unit, 10 units/case			

Locking Lid Microcentrifuge Tubes

0.6 mL *1.5 mL* *2.0 mL*

Locking lid tubes offer the extra sample security found with screw cap tubes, yet have the same ease of use as snap cap tubes. Autoclavable, boil proof and freezable to -80°C. Made from virgin polypropylene.

Cat. No.	Description	Color	Rated at
3454	0.6 mL, Graduated, Locking Lid, Non-Sterile	Natural	30,000 xg
3455	0.6 mL, Graduated, Locking Lid, Sterile	Natural	30,000 xg
3456	1.5 mL, Graduated, Locking Lid, Non-Sterile	Natural	24,000 xg
3457	1.5 mL, Graduated, Locking Lid, Sterile	Natural	24,000 xg
3458	2.0 mL, Graduated, Locking Lid, Non-Sterile	Natural	24,000 xg
3459	2.0 mL, Graduated, Locking Lid, Sterile	Natural	24,000 xg
Packaging: 0.6 mL available 1000/unit, 10 units/case; 1.5 mL/2.0 mL available 500/unit, 10 units/case			

Capless Microcentrifuge Tubes

These tubes are ideal for experiments where caps are not needed and storage is not required. Made from virgin polypropylene and certified RNase, DNase, DNA and pyrogen free.

Packaging: 0.6 mL available 1000/unit, 10 units/case; 1.5 mL/2.0 mL available 500/unit, 10 units/case

Cat. No.	Description	Color	Rated at
3477	0.6 mL, Graduated, Non-Sterile	Natural	30,000 xg
3479	1.5 mL, Graduated, Non-Sterile	Natural	26,000 xg

0.6 mL *1.5 mL*

Screw Cap Microcentrifuge Tubes – Conical

Conical screw cap tubes provide the same convenience as a snap cap with the security of a screw cap. Color caps are available for purchase separately. Autoclavable, boil proof and freezable to -80°C. Made from virgin polypropylene.

Cat. No.	Description	Color	Rated at
3462	0.5 mL, Tube Only, Non-Sterile	Natural	25,000 xg
3460	0.5 mL, Tube and Cap, Non-Sterile	Natural	25,000 xg
3431	0.5 mL, Tube and Cap, Sterile	Natural	25,000 xg
3460A	0.5 mL, Tube and Cap, Non-Sterile	Amber	25,000 xg
3431A	0.5 mL, Tube and Cap, Sterile	Amber	25,000 xg
3466	1.5 mL, Tube Only, Non-Sterile	Natural	20,000 xg
3464	1.5 mL, Tube and Cap, Non-Sterile	Natural	20,000 xg
3461	1.5 mL, Tube and Cap, Sterile	Natural	20,000 xg
3464A	1.5 mL, Tube and Cap, Non-Sterile	Amber	20,000 xg
3461A	1.5 mL, Tube and Cap, Sterile	Amber	20,000 xg
3470	2.0 mL, Tube Only, Non-Sterile	Natural	24,000 xg
3468	2.0 mL, Tube and Cap, Non-Sterile	Natural	24,000 xg
3463	2.0 mL, Tube and Cap, Sterile	Natural	24,000 xg
3468A	2.0 mL, Tube and Cap, Non-Sterile	Amber	24,000 xg
3463A	2.0 mL, Tube and Cap, Sterile	Amber	24,000 xg
Packaging: 500/unit, 10 units/case			

0.5 mL *1.5 mL* *2.0 mL*

Screw Cap Microcentrifuge Tubes – Free Standing

0.5 mL *1.5 mL* *2.0 mL*

Free standing tubes are suitable for sample preparation, centrifugation, and storage. Color caps available for purchase separately. Autoclavable, boil proof and freezable to -80°C. Made from virgin polypropylene.

Cat. No.	Description	Color	Rating
3422	0.5 mL, Tube Only, Non-Sterile	Natural	30,000 xg
3472	0.5 mL, Tube and Cap, Non-Sterile	Natural	30,000 xg
3465	0.5 mL, Tube and Cap, Sterile	Natural	30,000 xg
3472A	0.5 mL, Tube and Cap, Non-Sterile	Amber	30,000 xg
3465A	0.5 mL, Tube and Cap, Sterile	Amber	30,000 xg
3478	1.5 mL, Tube Only, Non-Sterile	Natural	18,000 xg
3474	1.5 mL, Tube and Cap, Non-Sterile	Natural	18,000 xg
3467	1.5 mL, Tube and Cap, Sterile	Natural	18,000 xg
3474A	1.5 mL, Tube and Cap, Non-Sterile	Amber	18,000 xg
3467A	1.5 mL, Tube and Cap, Sterile	Amber	18,000 xg
3490	2.0 mL, Tube Only, Non-Sterile	Natural	18,000 xg
3488	2.0 mL, Tube and Cap, Non-Sterile	Natural	18,000 xg
3469	2.0 mL, Tube and Cap, Sterile	Natural	18,000 xg
3488A	2.0 mL, Tube and Cap, Non-Sterile	Amber	18,000 xg
3469A	2.0 mL, Tube and Cap, Sterile	Amber	18,000 xg

Packaging: 500/unit, 10 units/case

Screw Caps for Microcentrifuge Tubes

Includes a frosted writing area on cap. Caps with an O-ring form a positive seal against the rim of the tube to prevent leakage. Made from virgin polypropylene and certified RNase, DNase, DNA and pyrogen free.

Cat. No.	Description	Color
3471	Screw Cap with O-Ring, Non-Sterile	Natural
3471R	Screw Cap with O-Ring, Non-Sterile	Red
3471Y	Screw Cap with O-Ring, Non-Sterile	Yellow
3471B	Screw Cap with O-Ring, Non-Sterile	Blue
3471G	Screw Cap with O-Ring, Non-Sterile	Green
3471A	Screw Cap with O-Ring, Non-Sterile	Amber
3471O	Screw Cap with O-Ring, Non-Sterile	Orange

Packaging: 500/unit, 10 units/case

Microtiter Tubes

Microtiter tubes meet the needs of many laboratory procedures and are available in a racked, 96-well footprint for robotic workstations. Autoclavable, boil proof and freezable to -80°C. Made from virgin polypropylene.

Cat. No.	Description	Color
3492	1.2 mL, Bulk, Non-Sterile	Natural
3496	1.2 mL, 96 Tube Robotic Rack, Non-Sterile	Natural
3487	1.2 mL, 96 Tube Robotic Rack, Sterile	Natural
3426	Strip Caps, Non-Sterile*	Natural
3425	Strip Caps, Sterile*	Natural

**Made from non-autoclavable LDPE*

1.2 mL

Specialty Microcentrifuge Tubes

Certified RNase, DNase, DNA, and pyrogen free. Specialty tubes are designed for small volumes and can be easily cut to remove pellets.

Cat. No.	Description	Color
3485	0.4 mL, Specialty Tube, Non-Sterile*	Natural
3483	0.25 mL, Specialty Tube, Non-Sterile**	Natural

**Made from non-autoclavable LDPE.*
*** Made from autoclavable Polypropylene.*

0.4 mL *0.25 mL*

Sterility Certifications:

Non-sterile products are certified free of RNase, DNase, DNA and pyrogens. Sterile products are certified free of RNase, DNase, DNA, pyrogen, endotoxin, ATP, bioburden and PCR Inhibitors.

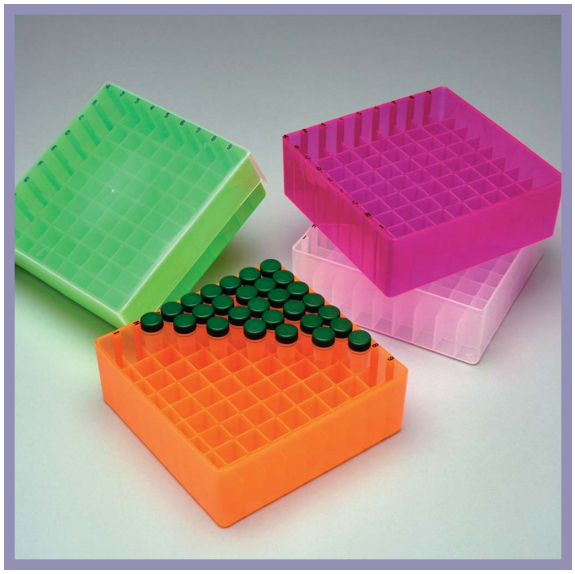
Molecular BioProducts 4-Way Flipper Racks

Molecular BioProducts 4-Way Flipper* Racks hold thirty-two 0.5 mL, thirty-two 1.5 mL, twelve 15 mL or four 50 mL tubes – each on a different side.

Details

- Holds 0.5 mL centrifuge/PCR tubes, 1.5 mL centrifuge tubes, 15 or 50 mL conical tubes on a different side
- Maximizes bench top space
- Can be used in freezers and waterbaths
- Autoclavable
- Available in fluorescent colors: Green, orange and pink

Cat. No.	Description	Unit Packaging	Color
8850	4-Way Flipper Rack	1	Fluorescent Green
8860	4-Way Flipper Rack	1	Fluorescent Orange
8870	4-Way Flipper Rack	1	Fluorescent Pink



Molecular BioProducts 81-Well Cryogenic Rack with Lid

Molecular BioProducts 81-Well Cryogenic Storage Racks secure and organize cryogenic storage vials. Easy-to-read alphanumeric labels simplify sample identification.

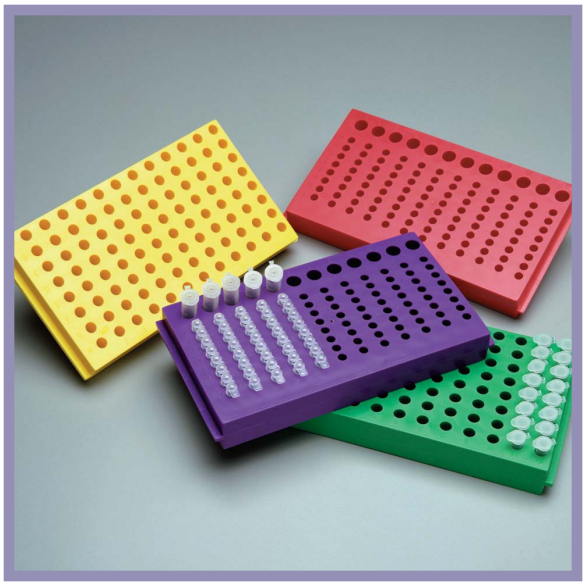
Details

- Holds 0.5, 1.5 and 2.0 mL cryovials
- Clear rack cover increases visibility
- Available in natural and fluorescent colors
- Alphanumeric grid for easy tube identification
- Stackable and more durable compared to cardboard freezer boxes

Cat. No.	Color	Unit Packaging
8800	Natural	1
8810	Fluorescent Green	1
8820	Fluorescent Orange	1
8830	Fluorescent Pink	1

Molecular BioProducts FlipStrip Microtube Racks with Lids

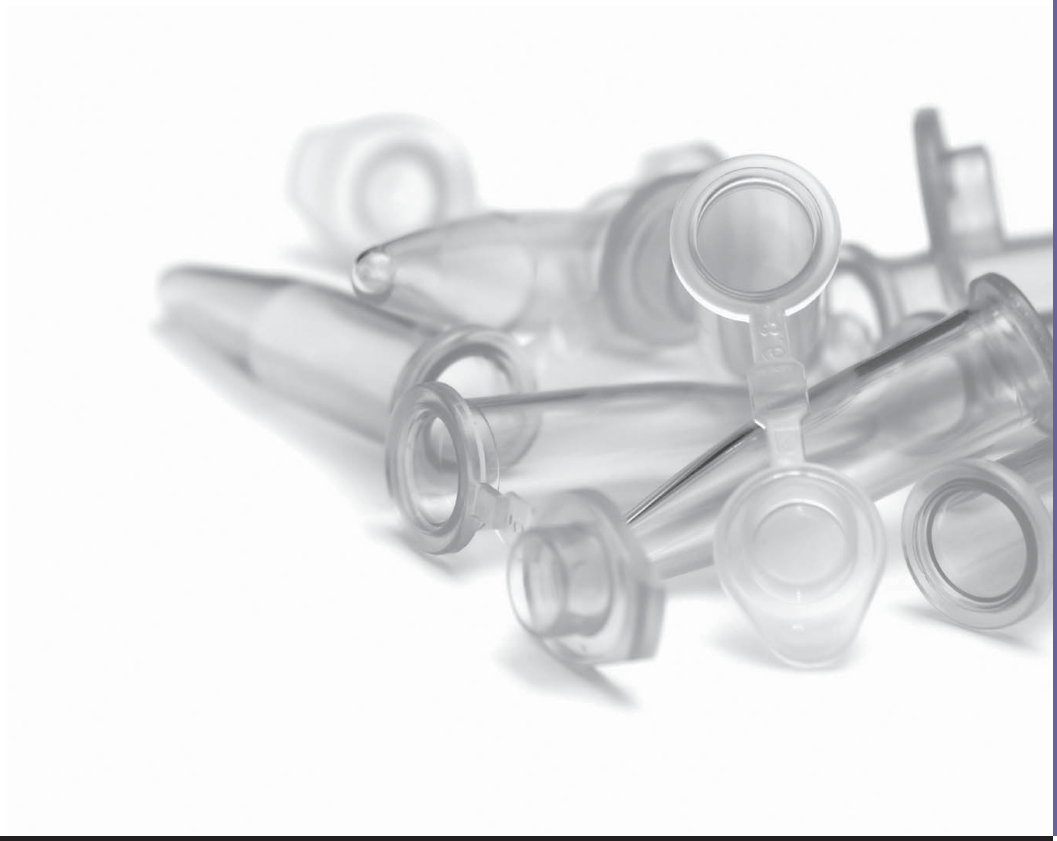
Molecular BioProducts FlipStrip* Microtube Racks are the perfect choice for PCR setup, holding 1.5 and 2.0 mL PCR reagent tubes and PCR tubes all in one rack.



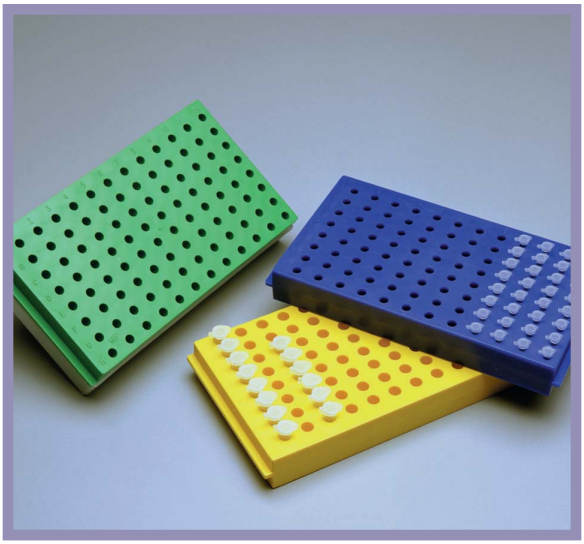
Details

- Holds 0.2 mL PCR strips and 1.5 mL tubes on one side, 0.5 mL tubes on other
- Stable, low-profile design with an alphanumeric grid for easy tube identification
- Lid protects samples and allows racks to be stacked
- Several colors available
- Rack comes with clear lid
- Made from 100% recycled plastic

Cat. No.	Description	Unit Packaging	Color
8608	FlipStrip Microtube rack with lid	12	Assorted (3 each: red, blue, yellow and green)
8618	FlipStrip Microtube rack with lid	12	Assorted (3 each: fl. green, fl. pink, fl. orange and purple)
8628	FlipStrip Microtube rack with lid	1	Green
8638	FlipStrip Microtube rack with lid	1	Blue
8648	FlipStrip Microtube rack with lid	1	Purple
8658	FlipStrip Microtube rack with lid	1	Yellow
8668	FlipStrip Microtube rack with lid	1	Fluorescent Pink
8678	FlipStrip Microtube rack with lid	1	Fluorescent Orange
8688	FlipStrip Microtube rack with lid	1	Fluorescent Green
8698	FlipStrip Microtube rack with lid	1	Red



Molecular BioProducts Reversible Microtube Racks with Lids



Molecular BioProducts Reversible Microtube Racks are a great choice for setting up PCR reactions in 0.2 or 0.5 mL PCR tubes. Use one side to hold 0.2 mL PCR tubes, or flip it over for 0.5 mL microcentrifuge or PCR tubes.

Details

- Holds 0.2 mL tubes on one side, 0.5 mL tubes on the other
- Alphanumeric grid for easy tube identification
- Lid protects samples and allows stacking
- Made from recycled plastic
- Several colors available

Cat. No.	Description	Unit Packaging	Color
8600	Reversible microtube rack with lids	12	Assorted (3 each: Red, Blue, Yellow and Green)
8601	Reversible microtube rack with lids	12	Assorted (3 each: Fl. Green, Fl. Pink, Fl. Orange and Purple)
8620	Reversible microtube rack with lid	1	Green
8630	Reversible microtube rack with lid	1	Blue
8640	Reversible microtube rack with lid	1	Purple
8650	Reversible microtube rack with lid	1	Yellow
8660	Reversible microtube rack with lid	1	Fluorescent Pink
8670	Reversible microtube rack with lid	1	Fluorescent Orange
8680	Reversible microtube rack with lid	1	Fluorescent Green
8690	Reversible microtube rack with lid	1	Red

Molecular BioProducts 96-Well Flipper Microtube Racks with Lids

Molecular BioProducts 96-Well Flipper Microtube Racks are designed to hold either 96- 0.5 mL or 96- 1.5/2 mL style microcentrifuge tubes. Each rack comes with a clear lid that protects and secures samples and allows racks to be stacked.

Details

- Holds 0.5 mL tubes on one side, 1.5/2.0 mL tubes on the other
- Molded with an alphanumeric grid for easy tube identification
- Frosted writing surface for smudge-resistant labeling
- Several colors available

Cat. No.	Description	Unit Packaging	Color
8760	96-Well Flipper Rack w/lid	1	Fluorescent Pink
8770	96-Well Flipper Rack w/lid	1	Fluorescent Orange
8780	96-Well Flipper Rack w/lid	1	Fluorescent Green
8790	96-Well Flipper Rack w/lid	1	Red

Compliance and Calibration Services

Committed to maintaining the accuracy of your data.

The accuracy and reliability of your data mean everything. That's why our compliance and calibration services serve a critical role in maintaining the operational integrity of your instruments and equipment.

Our compliance services include an array of key offerings – from pipetter calibration and documentation to standards, maintenance and qualification/validation services – for all of your laboratory instruments, regardless of manufacturer.

Compliance and Calibration Services

Multi-vendor Compliance Services

Our comprehensive services cover GML/GLP facilities, as well as facilities regulated by other national (e.g. EPA) and international regulations, including EMEA and ICH.

These services include:

- **Calibration** — We will verify the accuracy of a measuring system on your instrument against a reference standard, which may involve the adjustment of this system to minimize deviations from the standard and thereby improve its measurement accuracy.
- **Qualification** — Whether Installation Qualification (IQ) for your new or relocated instruments or Operational Qualification (OQ) for current instruments, we will perform a quantitative performance assessment or qualitative performance assessment.
- **Relocation Services** — We will properly uninstall, relocate and reinstall your instruments or equipment, along with end-calibrations and any other requested Compliance Services, if requested.
- **Standard Operating Procedure Development** — We will work closely with your lab to provide a written method for controlling a practice under a routine set of conditions, in accordance with predetermined specifications, to obtain a desired outcome.
- **Validation Services** — We have the validation support products, services and technical expertise to help you meet your objectives, and can evaluate all of your equipment, software, information systems, and entire processes to ensure compliance.

Extended Warranty and Preventive Maintenance Contracts

Performing routine preventive maintenance on laboratory instruments is the best way to keep them operating at peak performance for accurate results. It's also the best way of extending the life of the instruments, maximizing your investment.

Most of the Thermo Scientific instruments showcased in this catalog are available with optional Extended Warranty and Preventive Maintenance contracts that eliminate the need for you to track routine maintenance for each instrument. Plus, you enjoy the peace of mind knowing you're protected beyond the warranty period.

IQ/OQ/PQ Services

As with Extended Warranty and Preventive Maintenance contracts, we offer optional Instrument Qualification (IQ)/ Operational Qualification (OQ)/Performance Qualification (PQ) services for many of the instruments presented in this catalog.

Whether the need is for GMP/GLP labs seeking regulatory compliance, or for research labs simply looking to make certain that their new (or used) instruments are performing well and within published specifications, we offer both IQ/OQ/PQ testing protocols specifically developed to test the capabilities of each instrument, and IQ/OQ/PQ field packages, which include sending a field engineer to your lab to perform this testing.

Multi-vendor Pipetter Calibration, Maintenance and Repair Services

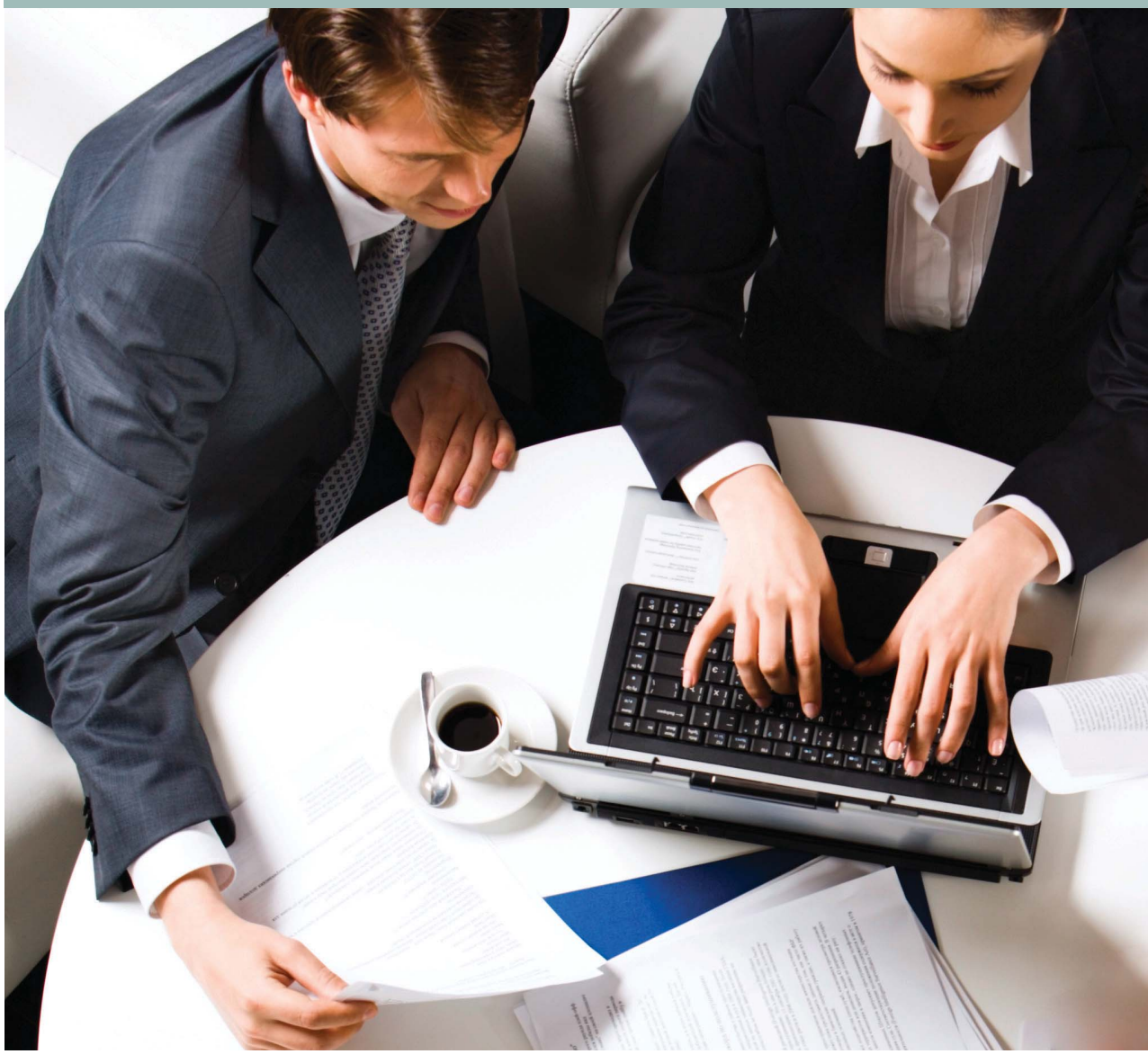
Pipetters are probably the most ubiquitous tools used in the life sciences industry, and liquid handling in general is central to virtually all life sciences research and testing. A liquid handling tool that is not performing correctly and is delivering inaccurate or inconsistent volumes can have drastic consequences. To ensure that pipetters are aspirating and dispensing accurate volumes of liquid, as well as performing within specifications, it is generally accepted that they should undergo preventive maintenance and recalibration procedures at least once each year.

As a leading manufacturer of pipetters for more than 25 years, we possess pipetting knowledge and expertise that is second to none. And knowing how critical regular maintenance and calibration is to pipetting performance, we offer expert level pipetter service for both Thermo Scientific and non-Thermo Scientific brand pipetters through an expanding network of PipetteLab* service centers worldwide. We also certify as *factory authorized* many independent distributors and pipetter service providers who receive formal pipetter service training through our training program, and whose facilities and processes meet our standards.

When your pipetters are serviced through a PipetteLab service center or Factory Authorized service provider, you are receiving the very best service available.

Coming Soon: Look for exciting developments in 2011, as we continue to greatly expand our PipetteLab service network and deliver valuable new tools to support your pipetting success.

To learn more about any of the services described above, please contact your local sales representative.



Leasing

At Thermo Fisher Scientific, we won't let equipment financing stand between you and your next great discovery.

Thermo Fisher Scientific is your partner for the best laboratory products and analytical technologies available, plus the unique financing options you need to accelerate success in science or industry.

Cost-effective financing designed for each individual customer is key to any successful equipment solution.

Regardless of your liquid handling equipment needs, our finance professionals have the expertise and industry insight that can help you meet your financing needs.

Benefits of Leasing

Flexible financing solutions allow us to create a program that best fits the needs of your facility. Leasing with Thermo Fisher Financial Services is easy. Here are some of the best reasons to finance your equipment:

Use of the equipment
Leasing allows you use of the equipment for an agreed-upon monthly payment — so you're able to pay as you use.

Tax and accounting benefits
Your lease payment may be tax-deductible depending on the type of lease you select. Your accountant or tax attorney can advise you.

Technology refresh
Make technology upgrades at any time during the term of the lease as new technology becomes available through Thermo Fisher Scientific.

Flexibility
Select a payment plan that best fits your budget.

Conservation of capital budget
Since your money is not tied up in equipment costs, you are free to spend it on other items, such as supplies, personnel and training.

Easier cash flow forecasting
Fixed monthly payments help you to better budget money for the term of the agreement.

Fixed payments
By locking in your payments now, you can avoid fluctuation in interest rates and inflation risk in the future.

Preserves credit
Leasing doesn't tie up your line of credit, providing more capital at your disposal when you need it.

Positive cash flow
Accelerate your ROI: Acquire income-producing equipment today with our deferred payment plans.

Easy to grow
With an optional Master Lease line of credit, you can easily add equipment throughout the year with a simple one-page lease agreement.

Standard Lease and Finance Options

Our goal is to provide flexible, competitive and comprehensive financial solutions for all of your instrument acquisitions, tailored to your specific requirements. This includes the financial flexibility you need to acquire the very best laboratory products and analytical technologies.

Thermo Fisher Financial Services offers Fair Market Value and One Dollar Buyout lease options with payment structures ranging from 12 to 60 months, plus payment options including step and skip payment structures, as well as quarterly or annual payment terms.

Fair Market Value Lease

The Fair Market Value Lease provides the lowest monthly payments and meets your concerns about equipment obsolescence and new technology by offering the following choices at the end of the lease term:

- You can choose to return the equipment to us and upgrade to the newest products available
- You can purchase the equipment for its Fair Market Value
- You can continue to lease the equipment

One Dollar Purchase Option

The One Dollar Purchase Option combines the benefits of leasing with those of owning your equipment. Your monthly payment will be slightly higher than that of a Fair Market Value lease, but you will have ownership of the equipment at the end of the term for a mere $1.

Master Lease Line of Credit

A Master Lease Line of Credit allows you to acquire multiple instruments over an extended period of time without having to go through the credit approval process more than once. You only have to sign one lease agreement.

Reagent Agreement Program

This all-inclusive lease program allows you one convenient monthly payment that includes the equipment, service agreement and consumables or reagents.

Future Funds Program

The Future Funds program allows you to take your time in deciding if your payment plan is right for you. You will have a three-to-nine month window to choose whether to buy or lease your equipment. During this time, you pay only one percent of the equipment cost per month.

Emerging Credit

A structured lease program is often a good fit for development stage companies seeking to help conserve capital. This all-inclusive lease program allows you one convenient monthly payment that includes the equipment, service agreement, and consumables or reagents.

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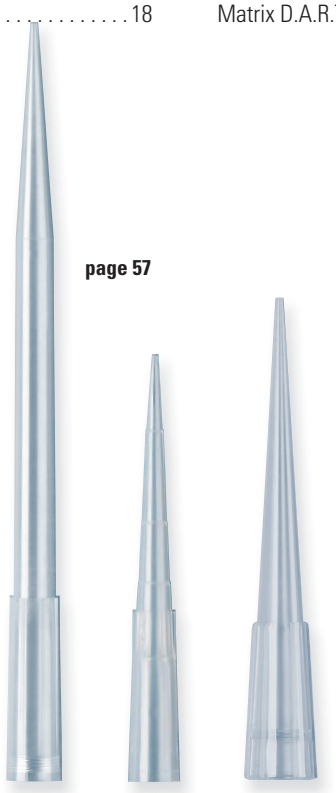

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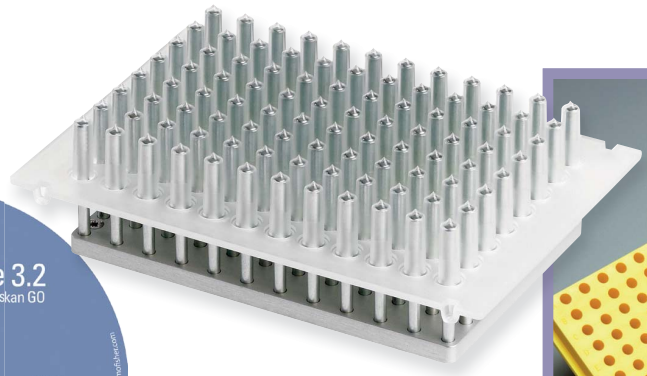

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