

The background of the entire page is a composite image. It features a pipette with a blue tip dispensing a drop of blue liquid. There are several circular droplets of different sizes and colors (blue, yellow, orange) floating in the air. A gloved hand is holding a clear plastic container. The overall color palette is soft and scientific, with a gradient from light blue to white.

thermo scientific

# Have a look!

Special Edition 2018  
Thermo Scientific Liquid Handling Solutions

**ThermoFisher**  
SCIENTIFIC

# Innovative and proven products for your Liquid Handling

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# Everything you need for your liquid handling applications

Thermo Scientific liquid handling solutions encompass a range of tools based on years of experience and innovation. Everything from manual and electronic pipetting, automated liquid handlers, reagent dispensers, microplate instrumentation, nucleic acid purification, as well as pipette tips for any pipette you have in the lab.

All you need, including worldwide service, support and application knowledge, delivering smart solutions to fit your specific needs in the lab. Move ahead with complete confidence. We think that's smart.

## Manual Pipettes



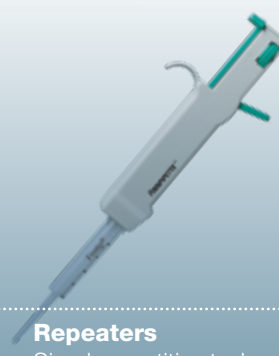
### Single channel

Variety of applications



### Multichannel

Microplate applications, such as ELISA, PCR, or cell culture



### Repeaters

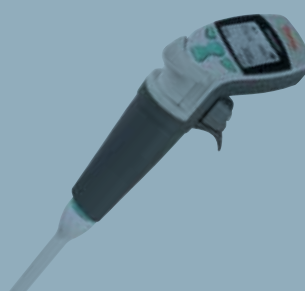
Simple repetitive tasks with a dispensing range up to 5 mL

## Electronic Pipettes



### Pipette filler

Cell and tissue culture applications, and in general laboratory liquid dosage with volumes over 1 mL



### Single channel

Repeated filling of micro-centrifuge or test tubes



### Multichannel

Repeated multidispensing in ELISA, PCR, or cell culture



### Adjustable tip spacing multichannel

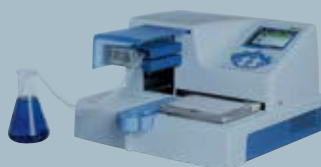
Transfer of samples or liquids between different labware formats repeatedly

## Automated Liquid Handling



### Automated Liquid Handler

Automated 96- or 384-channel pipetting - supports 96/384 plate replication, plate stamping and serial dilution procedures



### Reagent Dispensers

Flexible, precise microplate dispensing with high throughput

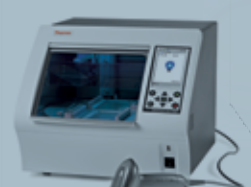
## Microplate Instruments



### Microplate Readers

Provide flexibility, performance and ease-of-use for a variety of microplate assays

## Nucleic Acid Purification



### Nucleic Acid Purification Systems

Rapid, reproducible purification of DNA/RNA, proteins and cells

To request further information please visit  
[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)

## Thermo Scientific ClipTip Pipetting Systems

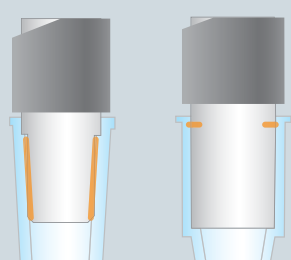
### Sealed in security - feel the difference

Achieve newfound confidence with the Thermo Scientific™ ClipTip™ pipetting system that lock tips firmly in place so they will not loosen or fall off, regardless of application pressure. You can actually feel the tips lock firmly in place with a light touch. This makes daily pipetting a totally new experience.

- **Eliminate the frustration of banging tips on your pipette:** with a light touch, each tip is 'clipped' securely on the pipette.
- **Reduce the risk of loose or leaking tips:** when ClipTip pipette tips are on, they are sealed and will not loosen. The ClipTip pipetting system remains sealed until you decide to eject tips, even in the most comprehensive applications, including multiple tip touches and mixing cycles.
- **Enable consistent and reproducible pipetting from user to user:** higher-quality results and more efficient research.

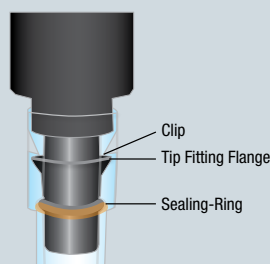
#### It is a challenge to ensure a quality seal in daily pipetting.

The ideal solution is for the pipette and tip to form a system that increases confidence in reproducibility, reduces forces required to attach and detach the system, and secures the best possible accuracy and precision.



#### Friction Sealing Systems

Pipettes with a friction-seal system rely on a user's force to attach tips to the pipette, which varies from user to user.



#### ClipTip System

ClipTip technology locks tips firmly in place with a light touch, and forms a seal on every channel.

**You'll feel the difference the first time you use the Thermo Scientific ClipTip pipetting system.**





## Thermo Scientific F1-ClipTip Manual Pipettes

### Exceptional performance and comfort, redefined

Lightweight handle design of the manual Thermo Scientific™ F1-ClipTip™ single and multichannel pipettes combined with low plunger, tip attachment and ejection forces help reduce the risk of RSI.

#### Adjustable comfort

The 120° adjustable finger rest – for both right- and left-handed operator comfort – allows your hand to relax during pipetting cycles.

#### Industry-leading lifetime warranty\*

With convenient online registration.

#### ClipTip Technology

A secure seal on every channel with low attachment and ejection forces for results you can count on again and again.

#### Super blow-out

150% increase in air boost ensures efficient delivery of micro-volumes and prevents capillary action in 50 µl models and below.

**CE-marked:** the F1-ClipTip Pipetting system is CE-marked in accordance with IVD Directive in Europe excluding the ClipTip Tip Reload Insert Packages.

\*Thermo Scientific F1-ClipTip pipettes are free from defects in material and workmanship for a product lifetime (up to 10 years). Validity of lifetime warranty varies by country. For more details, visit [www.thermofisher.com/pipettewarranty](http://www.thermofisher.com/pipettewarranty)

#### NEW: Silent, effortless volume adjustment

Enjoy the new silent and light volume adjustment with over 50% lower forces compared to earlier models. Improved grip on the volume adjustment knob ensures effortless and precise adjustment.

#### Secure volume lock

Securely set and lock volumes to prevent undesirable volume drift during operation.

Ask for more information now on  
[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)

## NEW: Thermo Scientific E1-ClipTip Electronic Pipettes with My Pipette Creator Application

Go beyond limitations and revolutionize the way you pipette!

The Thermo Scientific™ E1-ClipTip™ pipette combines interlocking technology that ensures secure tip attachment with the efficiency of electronic pipetting action. Increase productivity with an intuitive personalized user interface that allows for simple or complex use depending on the application

### Feel the assurance

Achieve newfound confidence knowing that once attached, your tips are locked firmly in place and will not fall off. Users have full tip control throughout pipetting cycles, as pipette tips will only release when ejected.

### A secure seal for every sample

The unique interlock design ensures the pipette and tip form a complete seal to secure the sample volume in each tip for enhanced accuracy and precision.

### Go beyond limitations with the new My Pipette™ Creator Application

Create and share programs, download pre-written protocols, and transfer programs to and from your pipette via a Bluetooth or USB connection.

### Ideal solution for complex protocols

Designed for optimum comfort and ease of use, the electronic tip ejection and index finger pipetting action let your thumb relax during pipetting and reduce the risk of Repetitive Strain Injury (RSI).

### Adjustable tip spacing

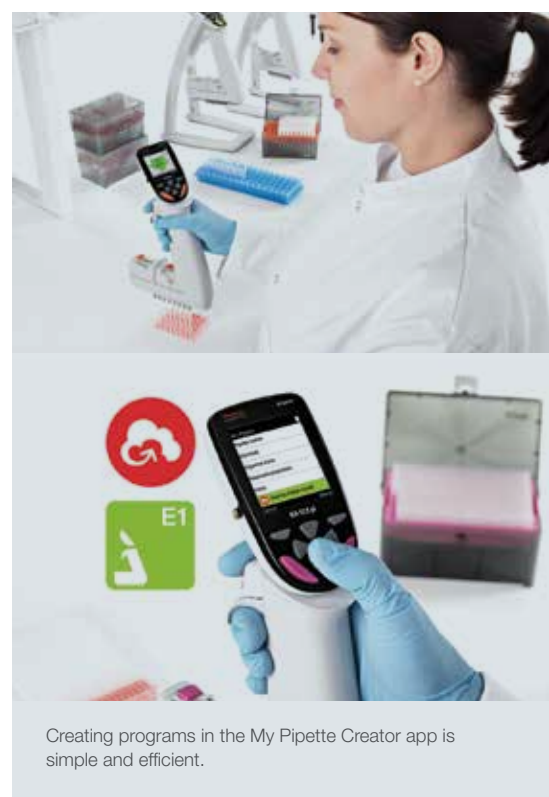
Perform sample transfers between virtually any tube, rack, microplate or horizontal gel box. Instantly save time and increase productivity simply by sliding the scale to expand and contract tips to your desired labware setting.

### Two operating options ensure optimal function for every application

Choose a step based Matrix or Presets with settings for your most common applications.

### Unified Operation

Customized user interface, five different user profiles, and password protection ensure consistent operation among multiple users.



Creating programs in the My Pipette Creator app is simple and efficient.

## Introducing My Pipette™ Creator

### Download protocols

Download pre-programmed protocols for your reagent kits. Save time and help ensure optimal results.



### Program on a PC

Program pipettes on your PC and transfer to multiple pipettes instead of programming pipettes individually.



### Share protocols

Share protocols with your colleagues in another lab, location or country.



### Manage pipettes

Connect to My Pipette Creator and streamline pipette programming, collaboration and consistency.



a new web-based pipetting app that helps take your work beyond the status quo with more optimization, simplicity and assurance, along every step of your pipetting process.

Connect your **Thermo Scientific™ E1-ClipTip™** pipettes to the My Pipette Creator app and tap into the power of connected pipetting.

**Boost productivity, efficiency and your research results.**

Get connected today! Learn more at: [thermofisher.com/mypipette](https://thermofisher.com/mypipette)

Powered by

Thermo Fisher Cloud



## Thermo Scientific E1-ClipTip Electronic Adjustable Tip Spacing Multichannel Equalizer Pipettes

### Sample transfers have never been this simple

Perform sample transfers between virtually any tube, rack, microplate or horizontal gel box quickly and efficiently with the Thermo Scientific™ E1-ClipTip™ Equalizer Pipette. Adjustable tip spacing allows you to set the distance between tips simply by sliding the scale to expand and contract to your desired setting. The unique equalizer window links the tip spacing scale to the particular application. This means fewer repetitions for multiple applications.

#### Benefit from all advantages of the E1-ClipTip™ pipettes (see previous pages):

- ClipTip technology locks tips firmly in place with a light touch
- Electronic pipetting action and flexible user interface enable efficient use of precious time and resources
- Connect your pipette to new web-based pipetting app powered by Thermo Fisher Cloud

#### Quick and easy adjustment of tip spacing for different types of labware:

- Microcentrifuge tubes to/from 24,-48,-96-and 384- well microplates
- Test tubes to/from deepwell blocks
- Microplates and tubes to agarose gels



Over 90% time savings  
and fewer repetitions  
compared to  
single channel pipettes\*

Learn more in our video on  
[thermofisher.com/hal-lh](https://thermofisher.com/hal-lh)

#### Transfer multiple samples between different lab formats at once



Equalizer window set to '384' to pipette onto 384-microplate



Equalizer window set to '48 MCT' to pipette on MCT tubes or 48-well microplates

\*Compared to a manual single channel pipette filling a 96-well microplate from microcentrifuge tubes.



## Enhanced models: Thermo Scientific Finnpiquette F1

Exceptional performance and comfort, redefined – everything you want in your everyday, go-to pipette

The Thermo Scientific™ F1 Finnpiquette™ system delivers performance with precision, all in a lightweight design that maximizes user comfort and reduces strain. It's the ideal system for applications using expensive reagents and valuable samples. The Finnpiquette F1 now takes pipetting to a whole new level with significant new enhancements.

- **A lighter, silent touch:** volume adjustment is virtually effortless and silent, also enabling one-handed volume changes.
- **A better grip and confident feel:** a textured adjustment knob provides a feel of confidence when setting volumes. Optional handle strips enable a firmer grip that makes a huge difference in your work.
- **A slightly softer push:** lower pipetting forces now reduce Repetitive Stress Injury (RSI) even further without compromising results. That means maximum comfort with confidence you can count on each and every day
- **A little more respect for your thumb:** a wider tip ejector gives your thumb more room to operate in comfort.

### Adjustable comfort

The 120° adjustable finger rest – for both right- and left-handed operator comfort – allows your hand to relax during pipetting cycles.

### Comfortable tip ejection

Soft touch tip ejection combined with the softer collar of Finntip Flex tips reduces ejection forces.

### Super blow-out

Ensures efficient delivery of micro-volumes and prevents capillary action in 50 µL models and below.

### NEW: silent, effortless volume adjustment

Enjoy the new silent and light volume adjustment with over 50% lower forces compared to earlier models. Improved grip on the volume adjustment knob enables effortless and precise adjustment.

### Secure volume lock

Securely set and lock volumes to prevent undesirable volume drift during operation

Ask for more information now on  
[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)



## Thermo Scientific Finnpiquette F2

Built rugged to excel where other pipettes often fail

In many laboratory environments, chemical resistance and physical durability are requirements for a pipette. It must be able to endure powerful, frequent decontamination methods and withstand a range of harsh chemicals. The durable Thermo Scientific™ Finnpiquette™ F2 contains tough PVDF components that stand up to harsh chemicals and the damaging effects of UV light. Its rugged design withstands physical use without damage.

- Large Ergovisio display with white numbers on black background for increased visibility
- Double-action pipetting button; rotating upper part prevents accidental volume alteration
- Light, smooth pipetting action enables better results over longer periods
- Super blow-out piston with volumes of 50 µL and below ensures delivery of micro-size drops
- Fully-Autoclavable – no need to disassemble/re-assemble the F2 for autoclaving
- Maintenance is easy: simply detach the tip cone for efficient daily maintenance or decontamination when not using an autoclave.



Choose from a broad range of single-channel models with either fixed or variable volume and multichannel pipettes with 8, 12 or 16 channels – all available for different volume ranges.

## Thermo Scientific Finnpiquette Novus Electronic Pipettes

### Safe and Comfortable

The Thermo Scientific™ Finnpiquette™ Novus excels in repetitive applications – such as plate filling, due to its multi-dispensing functionality. Electronic pipetting operation and adjustable speed make it ideal when working with small volumes and viscous liquids.

The combination of its lightweight design and soft-touch tip ejection makes Novus the safe and comfortable choice for heavy-duty pipetting applications. Its unique index-finger operation allows your thumb to relax during pipetting. Novus also ensures your data integrity by storing programs and monitoring the number of pipetting steps between calibration intervals to provide quality, consistent results.



#### FINNPIPETTE NOVUS PIPETTING FUNCTIONS

##### BASIC FUNCTIONS

###### Pipette (forward technique)

The forward technique is recommended for aqueous solutions, such as buffers, diluted acids or alkalis.

###### Rpipet (reverse & repetitive technique)

The reverse technique is suitable for dispensing liquids that have a high viscosity or a tendency to foam easily. The technique is also recommended for dispensing very small volumes. The repetitive technique offers a rapid and simple procedure for repeated delivery of the same volume.

###### Stepper (multidispensing)

The STEPPER function allows the repeated dispensing of one selected volume. It's ideal for microplate applications.

###### Dilute

The DILUTE function let's you dispense two selected volumes separated by an air gap.

## Thermo Scientific Finnpiquette Stepper Pipette

Lightweight, easy-to-use repeater pipetter designed for one-handed dispensing

Rapidly dispense up to 45 times in succession without refilling. The Thermo Scientific™ Finnpiquette™ Stepper Pipette is a lightweight, easy to use repeater pipette ergonomically designed for one-handed dispensing. Operating on the positive displacement principle, the Finnpiquette Stepper is ideally suited for work with aggressive and viscous liquids.

- 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



## Thermo Scientific Finnpiquette Multistepper Pipette

Reduce the risk of error and increase productivity in immunoassay applications

The Thermo Scientific™ Finnpiquette™ Multistepper Pipette is a lightweight, easy-to-use repeater pipette that provides simultaneous dispensing in eight channels. Designed especially for work with microplates, the Finnpiquette Multistepper helps speed up routine laboratory procedures.

- Easy to use – simply attach, fill, and prime the module and dial the selected volume
- Delivers 50, 100, 150, 200, or 250  $\mu\text{L}$
- With a single loading it can deliver  $24 \times 50 \mu\text{L} = 192$  wells,  $12 \times 100 \mu\text{L} = 96$  wells,  $8 \times 150 \mu\text{L} = 64$  wells,  $6 \times 200 \mu\text{L} = 48$  wells or  $5 \times 250 \mu\text{L} = 40$  wells
- All eight channels are calibrated to simultaneously dispense exactly the same volume of liquid
- Pipetter capacity: 1250  $\mu\text{L}$
- Accuracy:  $\pm 5.0$  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
- 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 or left-handed users
- Accepts Thermo Scientific™ Finntip™ Multistepper 1500  $\mu\text{L}$  tips. They are extra long, with more air space between the liquid and tip cone to prevent contamination



## Pipette tip selection

### Select the correct tip for ideal sample recovery

There is a pipetting system for virtually every application and requirement. The type of experiment you are performing and the physical properties of the liquid will determine the correct pipette tip to use.

#### Standard Tips

A standard tip is a multi-purpose tip for many laboratory applications with a variety of performance requirements that range from high accuracy to reagent dispensing with greater tolerance. Sterile standard tips are available for applications demanding the highest level of purity.

#### Sterile Filter Tips

A filter tip is beneficial when the assay is sensitive to cross-contamination, or if the sample can contaminate the lower part of the pipette. The filter prevents liquid from accidentally splashing the inside of the pipette, and reduces aerosols from penetrating the pipette tip cone during pipetting.

Filter tips are recommended for low volume applications in genetic studies, forensics, PCR, and radioisotope sampling. They are available with either self-sealing barrier or standard filter tips – both of which are designed to prevent cross-contamination.

#### Extended Length Pipette Tips

Extended length tips allow you to access the bottom of test tubes, reagent bottles, flasks, and other vessels without touching the shaft of the pipette against the side of the tube. This adds a layer of security to protect samples, and virtually eliminates the chance of carryover contamination. The longer tip length allows you to reach the bottom of long or narrow vessels that standard tips cannot reach.



Extended length tip Finn timer 1000 EXT

#### Low Retention Pipette Tips

Utilizing polymer technology makes the inner surface of the pipette tip more hydrophobic, resulting in a significant reduction in sample loss due to adhesion. Benefits include improved sample delivery and conservation of expensive reagents.

Thermo Scientific™  
ART™ Tips



NO contamination  
Self-sealing barrier  
Aerosol contamination  
Sample

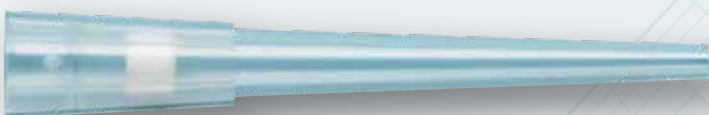


### Specialty Tips

Specialty tips are designed for unique pipetting applications to save time, reduce contamination, and increase accuracy, precision, and productivity.

#### Wide Orifice Tips

Wide orifice tips feature a distal end orifice that is nearly 70 percent larger than that of a standard pipette tip. These tips provide the added flexibility required for handling difficult-to-pipette samples. They are designed for researchers working with macromolecules like genomic DNA and are especially critical for transferring fragile cellular samples such as macrophages, hybridomas, and hepatocytes, as well as other viscous materials.



Genomic (wide orifice) tip ART 200G Wide Bore

#### Gel Loading Tips

Loading acrylamide or agarose gels with standard pipette tips can be a time-consuming process. Use the round gel loading tips for agarose gels and specialized Ultra Round and Ultra Flat gel tips for your polyacrylamide gels to speed up the loading process.



ART 20P Gel Loading

#### Solvent Safe Carbon Filtered Tips

Solvent-safe carbon filtered pipette tips are the best solution for handling the pipetting rigours of Combinatorial Chemistry. These specialized tips keep strong acids, bases, and aggressive organic solvents from causing pipette failures and critical inaccuracies.



ART 200 Solvent Safe

#### Individually Wrapped Tips

For extremely sensitive applications, single-wrapped tips are available. Individually-wrapped sterile tips are ideal for extremely sensitive applications requiring strict aseptic conditions.



Did you know that we have the broadest selection of pipette tips?

Choosing the correct tip for your application will ensure ideal accuracy and precision.



## Thermo Scientific ART Pipette Tips

Superior tips for any application, any pipette

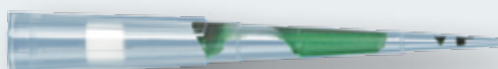
The Thermo Scientific™ ART™ portfolio offers a complete selection of barrier, non-filtered and specialty tips. It has never been easier to find a tip to fit virtually any pipette or application in your laboratory. All deliver proven ART quality, performance and reliability, backed by the highest Thermo Scientific standards and worldwide support. From 10 µL to 10 mL barrier and non-filtered tips, to gel loading and wide bore specialty products – every tip is certified to meet the industry's highest standards for molding precision and clarity, and are certified free of RNase, DNase, ATP, and Pyrogens. And each meets the exact specifications of its respective pipette brand manufacturer.

### Thermo Scientific ART tips deliver:

#### Maximum sample recovery.

Using advanced low-retention technology, the tip's hydrophobic inner surface significantly reduces sample loss to adhesion and maximizes sample recovery

#### Standard Pipette Tips



Unnecessary sample loss

#### ART Pipette Tip with Low Retention Technology



Minimal sample loss = better data



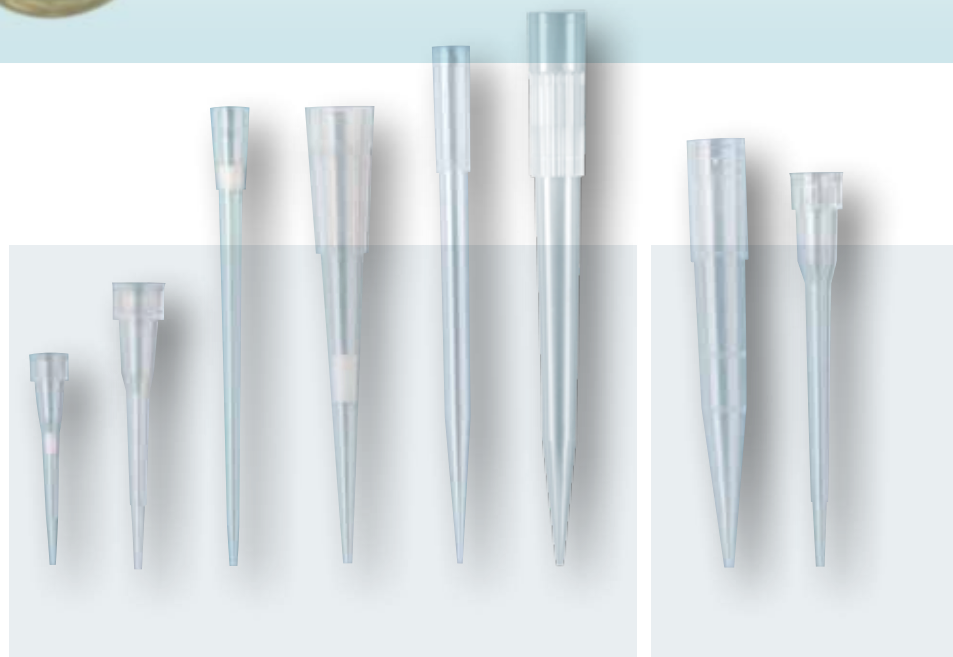
#### Designed for the way you work: The Versatile ART Hinged Rack

One-handed access to tips means you don't have to worry about your tips spilling on the bench or floor, maximizing your productivity. Users will often create the safety and security of a hinged rack by using tape – an advantage our portfolio offers in just three easy steps.

Simply unhinge, turn and realign the cover — now you have a traditional lift-off.

## ART tips are available for ALL your applications:

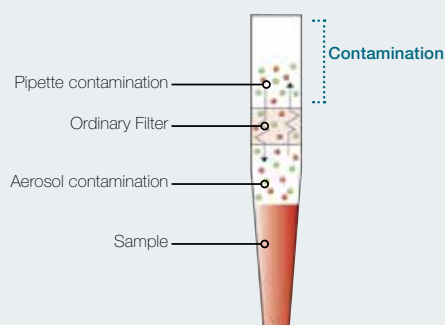
- Barrier
- Non-Filtered
- Specialty



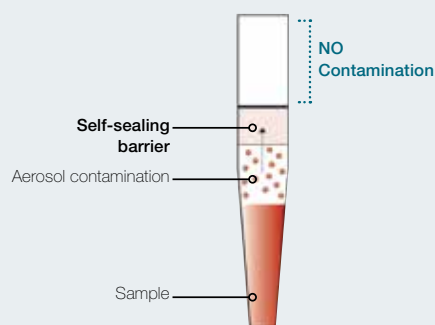
## Ultimate protection.

Researchers have made ART self-sealing barrier tips their first choice in sample protection. ART barrier tips provide 100% security against aerosols and liquid contamination.

### Pipette Tip with Generic Filter



### Pipette Tip with ART Barrier



## Tested by an independent laboratory: ART self-sealing barrier tips prevent contamination and preserve sample integrity during use in PCR

ART self-sealing barrier tips were tested by an independent laboratory to demonstrate their ability to preserve sample integrity during use in PCR. First, the ability of the proprietary ART barrier to prevent contamination was tested and compared to other filter tips. Second, the ability to recover liquid which was overdrawn into the ART barrier was determined. Third, the ART barrier was tested to show that it does not compromise or inhibit PCR if accidentally contacted by samples used in PCR.

**The independent laboratory tests demonstrate that only ART self-sealing barrier tips effectively prevent aerosol and liquid contamination, minimize sample retention, and that the proprietary ART barrier does not inhibit PCR when used as intended.**

Read the complete Application Note “Maintaining Sample Integrity with Aerosol-blocking Tips” on [www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)





## Environmentally-friendly Reload Systems for Thermo Scientific ART Pipette Tips

### Reduce plastic waste and save bench space

The Thermo Scientific™ ART™ Reload Pipette Tip Towers and Inserts provide an environmentally-responsible solution without compromising sterility. With offset wells that allow the tips to stack, this advanced system generates up to 54% less waste compared to conventional hinged rack pipette tips and saves up to 55% bench top and storage space.

#### Space Saving

Stackable barrier tip packaging allows for tips to pass through offset holes in lower insert.

#### Easy to use

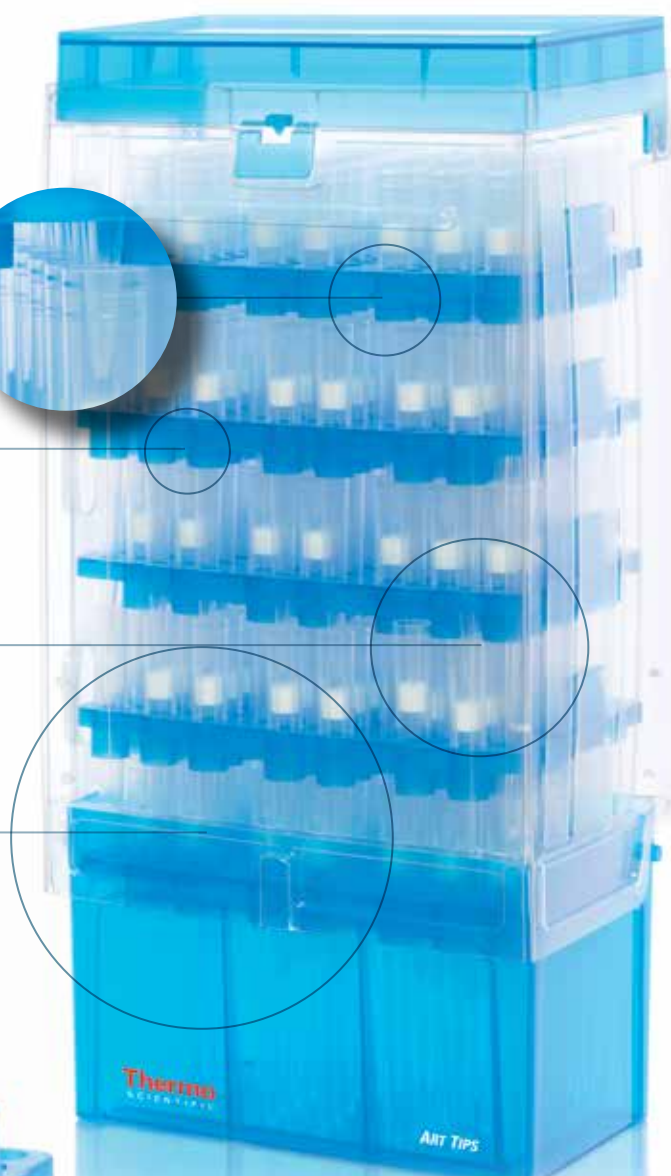
Blister sleeve guide rails align tip inserts for smooth transfer into the rack.

#### Sterile Packaging

The outer sleeve protects tips from exterior contamination while refilling inserts.

#### Environmentally-friendly

The tip packaging option reduces plastic waste and saves bench top space.

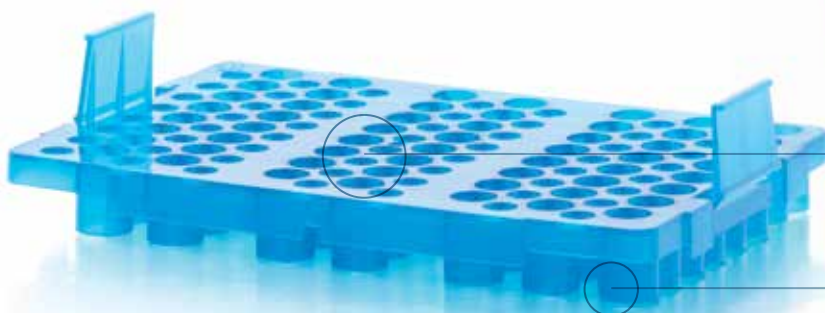


#### Multichannel-friendly

The rigid insert design provides reliable tip loading.

#### Traceable

Lot number and description are printed on every insert.



Ask for more information and free samples now on  
[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)



## Thermo Scientific Finntip Pipette Tips

Achieve excellence in a complete Finnpiquette system

Thermo Scientific™ Finntip™ tips are designed and manufactured expressly for Finnpiquette models to deliver optimal performance, precision and accuracy. They meet ISO 9001, ISO 14001 and ISO 13485<sup>1</sup> standards for exceptional quality

- **Available in a Wide Range of Volumes and Styles:** Volume ranges from 0.2 µL to 10 mL in standard, extended length, and wide orifice tips.
- **Enhancing User Comfort:** Finntip Flex pipette tips feature a soft collar and stable rack base that support lower attachment and ejection forces, to reduce hand strain.
- **Easy Identification:** colour-coding on each Finnpiquette and Finntip rack maximizes efficiency.
- **Environmentally-friendly:** space-saving refill capability with reload packaging options that minimize materials and waste.

Finntip Flex 200



Finntip 200  
Extended  
Length



Finntip 1000  
Wide Orifice



Finntip 10 mL



\* Finnpiquette F1 and F2 together with compatible Finntip tips are CE marked in accordance with IVD Directive in Europe.

**Lower tip ejection forces up to 49%** by using Finntip Flex tips with the Finnpiquette F1 multichannel pipette compared to universal tips. The soft touch tip ejector on the Finnpiquette F1 combined with the soft collar on the Finntip Flex tips reduces the force needed to eject tips for less strain on your thumb. **That is savings that can really add up each day!**



## Thermo Scientific S1 Pipette Fillers

Fast pipetting performance - longer battery life



The portable lightweight Thermo Scientific S1 Pipette Filler is designed for use with either glass or plastic serological pipets. It offers effective streamlined pipetting performance with maximum pipetting comfort. The large backlit LCD display provides visual confirmation of remaining battery charge and speed settings. Separate aspirate and dispense buttons on the rear of the S1 pipette filler individually set aspiration and dispense speeds. The rechargeable lithium-ion battery delivers up to 15 hours of continuous operation before recharge while taking half the time to recharge compared to NiMH batteries. Wall mount stand, table mount stand, power supply and 1 ml pipette filler support are included with each S1 Pipette Filler.

- **Large backlit LCD display:** shows remaining battery life and current speed
- **Separate aspirate and dispense speed controls:** provide precise control over pipetting speeds and reduce risk of overpipetting with smaller pipets
- **Rechargeable lithium-ion battery:** offers long runtime per charge while eliminating battery memory problems
- **Customizable ID area and choice of five colors:** permits easy recognition of ownership and/or task designation

## Thermo Scientific Finn timer Dispensers

A superior tool for dosing liquids from reagent bottles

Dose liquids from reagent bottles with Thermo Scientific™ Finn timer™ Dispensers, which protect users even when handling aggressive liquids. Six models are available, covering volumes between 0.2 and 60 mL.\*

- Excellent chemical and thermal resistance
- Fully autoclavable without disassembling
- Precise self-locking system in the volume setting
- Dispensing head cap prevents dripping
- Ergonomic design prevents work fatigue
- Threaded suction hose for bubble-free suction

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



## Thermo Scientific Nunc Serological Pipettes

### Research with confidence

Our expanded portfolio of Thermo Scientific™ Nunc™ Serological Pipettes features a full range of size and packaging options – offering the quality, accuracy and performance today's scientists require during every stage of cell culture research. Choose multiple sizes, ranging from 1 mL to 50 mL including 5 mL and 10 mL sleek shortie pipettes for easy maneuvering under the hood.

- **Accurate, disposable plastic pipettes plugged and sterilized:** Sterility assurance level (SAL) of  $10^{-6}$ , 100% virgin polystyrene for maximum clarity, certified non-pyrogenic
- **Designed for precision:** non-dripping tips and bold clear graduations with easy-to-read scale markings
- **Packaging options that accommodate every lab:** individually wrapped; paper/plastic or plastic film; peel or pop through for easy opening, colour-coded for ease in sorting and selecting the correct size



## Thermo Scientific Samco Transfer Pipettes

### Precisely what you need



Thermo Scientific™ Samco™ transfer pipettes have been the industry leaders for over 35 years. our state of the art tool room produces largest variety of Transfer pipettes in the industry.

#### Design

- Grips easily with latex gloves – no slipping
- Clear graduated markings
- Fine tip accuracy
- Packaging materials greatly reduce airborne mold spores from entering testing areas

#### Repeatable Results

- Inert, nontoxic Polyethylene
- Manufactured without mold release agents that could interfere with test results

#### Confidence

- Precision-cut tips deliver a uniform drop size
- Controlled processes produce a uniform bulb with uncompromised integrity
- Certified ISO 13485:2003
- Registered FDA Class I Medical Device

Ask for more information and free samples on:  
[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)



## Thermo Scientific Versette Automated Liquid Handler

### User-friendly liquid handling in a compact format

Support a wide range of applications with the Thermo Scientific™ Versette™ Automated Liquid Handler, a compact handler featuring user-friendly programming, reliable performance and a choice of 96- or 384-channel pipetting heads. An ideal choice for the liquid handling needs of most laboratories, it supports 96/384 plate replication, plate stamping, high-throughput Mass Spectrometric Immunoassay (MSIA), serial dilution and many other applications.

#### 96-and 384-channel pipetting heads

- Total volume range 0.5 to 300 µL
- All pipetting heads include RFID tags for self-identification

#### Consumables for optimized performance

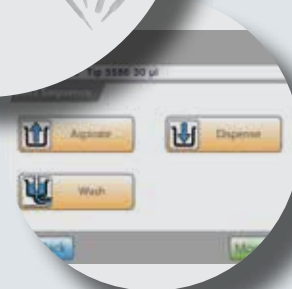
- All pipetting heads utilize Thermo Scientific™ D.A.R.T.s tips

#### Compact size

- Six position stage uses a unique dual-level design to minimize space requirements
- Fits on standard bench

#### User-friendly programming options

- Simple pipetting procedures can be created using visual on-board graphical display
- For more complex protocols and advanced editing, use Thermo Scientific™ ControlMate™ software included with purchase of the unit



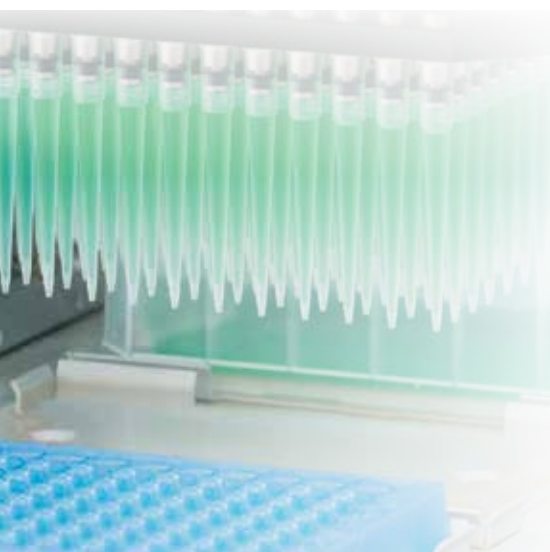
See how easy liquid handling can be - watch our product video now on:

[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)



## Thermo Scientific Automation Tips and Accessories

Increase efficiency through accurate and precise performance



With the broadest range of automation tips and accessories, we provide solutions for your liquid handling needs. Our products increase efficiency through accurate and precise performance. There are more than 300 Thermo Scientific automation tips designed to fit over 50 workstations and pipetting head variations. Our Thermo Scientific automation tips are compatible with most common workstations such as Eppendorf®, Beckman™, Tecan™, PerkinElmer™/Packard™, Qiagen™ and many other\*.

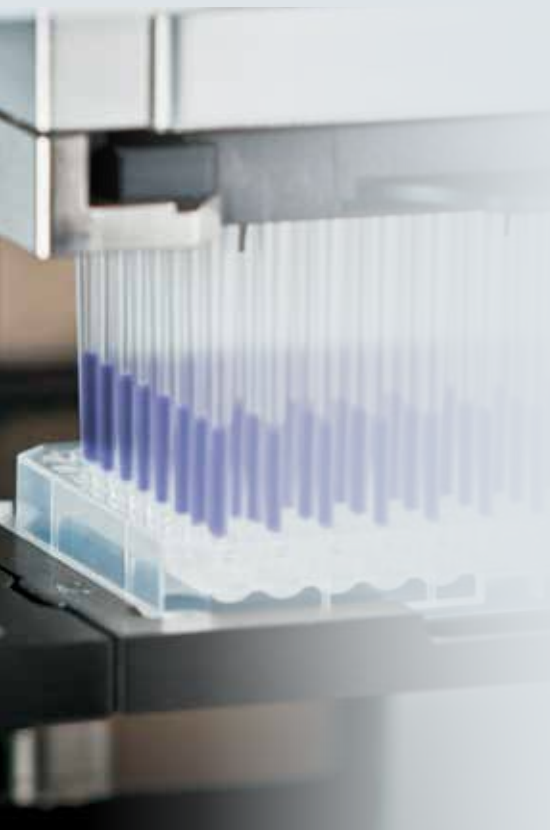
These tips undergo a rigorous quality control program to ensure consistency resulting in superior tip straightness and a low coefficient of variation ranging from 1% to 3%. With stringent manufacturing specifications, our tips adhere to tolerances 400% tighter than standard pipette tips.

With the flexibility to handle reagents on virtually any automated workstation, the Thermo Scientific automation reservoirs feature the same shape and dimensions as standard microplates and are designed to reduce reagent waste.

\*Eppendorf®, Beckman™, Tecan™, PerkinElmer™, Packard™ and Qiagen™ are trademarks of their respective owners.

## Thermo Scientific Mass Spectrometric Immunoassay (MSIA) Pipette Tips

Next generation immunoaffinity



MSIA™ Disposable Automation Research Tips (D.A.R.T.'S®) are the next generation immunoaffinity approach providing a simple way to enrich and concentrate target proteins for down-stream mass spectrometric analysis. The Thermo Scientific MSIA utilizes a 300 µL pipette tip embedded with a proprietary, highly porous immunoaffinity column in which the antibody is immobilized using a quick and easy protocol. The enrichment steps involve sample binding, wash and elution by cycling sample and various reagents rapidly through the micro-column in the pipette tip.

The reliable MSIA protocols can be performed manually on our new Thermo Scientific Finnpiptette Novus i Multichannel Electronic Pipettes (for immuno-precipitation) or in a high-throughput format using our Thermo Scientific Versette Automated Liquid Handling Platform. Furthermore, Protein A/G and Avidin universal MSIA tips provide the flexibility to tailor the tips for specific target analyte applications by using your antibodies of choice.

Ask now for more information  
and free product samples on  
[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)

## Thermo Scientific Multidrop Dispensers

Save time at the bench with fast, reliable dispensers

Fill plates in seconds with excellent precision and reproducibility, helping you run tests faster and increase productivity. Compact Thermo Scientific™ Multidrop™ dispensers fit easily on the bench, and the intuitive user interface makes setup and programming a breeze.



### Thermo Scientific™ Multidrop™ Combi nL Reagent Dispenser

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

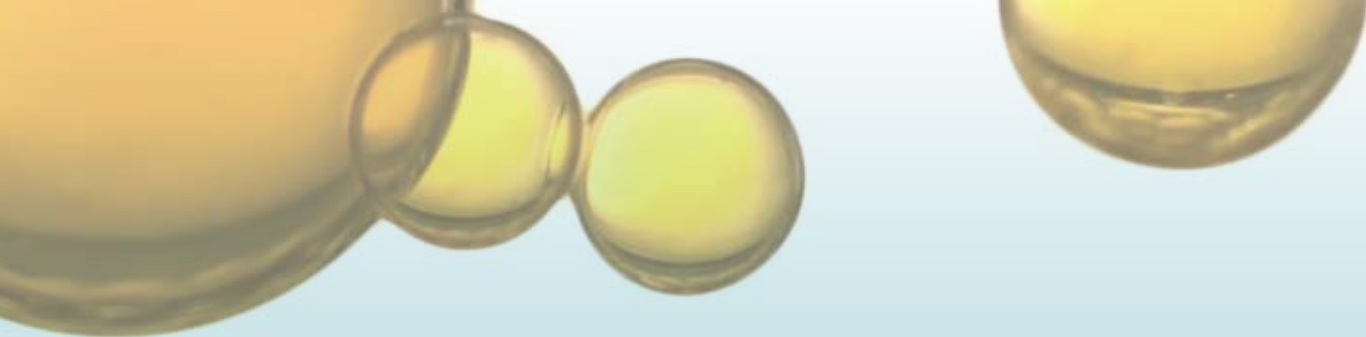
- Reliable low volume dispensing: For precise dispensing over a 50 nL to 50  $\mu$ L range, providing high quality assay data
- Increased flexibility: Dispenses repeatably into plates with variable height, allowing the user to fill rows, columns, or wells with the easy to use FILLit Software
- Effortless 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



### Thermo Scientific™ Multidrop™ Combi Reagent Dispenser

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. It supports a wide selection of plates and volume ranges, offering fast dispensing and highthroughput operation.

- Provides precise dispensing over a 0.5 to 2500  $\mu$ L 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
- Minimal dead volume and back-flushing reduces reagent costs
- Easy to use Thermo Scientific FILLit Software provides increased flexibility and functionality
- Full robotic compatibility gives increased throughput
- Uses eight-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 and provides improved reliability and cassette lifetime traceability, greatly enhancing user efficiency and reporting capability



### Thermo Scientific™ Multidrop™ 384 Reagent Dispenser

The Multidrop 384 Bulk Reagent Dispenser portions a wide range of solutions into 96- and 384-well plates across a 5 to 395  $\mu$ L volume range, providing reliable microvolume dispensing for pharmaceutical and biotechnology laboratories.

- Precise and 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



### 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. It releases various liquids into 96 standard and DW plates across the 20 to 995  $\mu$ L volume range.

- Precise dispensing ensures high-quality assay results and reproducible data
- Wide volume range provides flexibility and increased speed
- Quick plate and volume selection, combined with easy maintenance, makes assay setup quick and easy
- Dispenser uses an eight-channel detachable and autoclavable dispensing cassette to ensure sterile conditions and to avoid cross contamination
- All reagent lines can be backflushed into the reagent bottle, minimizing the loss of expensive reagents



### 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.

- Eight-channel detachable and autoclavable dispensing cassette ensures sterile conditions and avoids cross contamination
- All reagent lines can be backflushed into the reagent bottle, minimizing the loss of expensive reagents
- Choose between standard and small tube cassettes, or SMART versions that store dispensing lifetime data
- Plastic cover structure, silicone tubing and polypropylene or metal tip with 0.5 mm or 0.22 mm inner diameter
- Available as single versions, 5-packs and 10-packs

### Ideal for reproducible dispensing of live cells

High throughput cell-based assays are an important part of drug screening, and successfully dispensing viable cells is a key step in the process. Automated reagent dispensers are used to achieve higher throughput in the screening laboratories. Dispense must not only be quick, it must also be gentle enough to ensure cell viability. A cell viability assay demonstrated that the Multidrop Combi dispenser is suitable for handling live cells.

**Learn more from our Application Note “Reproducible dispensing of live cells with the Thermo Scientific Multidrop Combi reagent dispenser” on [www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)**





## Thermo Scientific Varioskan LUX Multimode Microplate Reader

### Simplified versatility for a range of applications

Our newest multimode microplate reader combines simplicity with high performance. Designed for researchers with a wide variety of needs, Thermo Scientific™ Varioskan™ LUX offers features to save time and help reduce common errors in the lab – including automated dynamic range selection, which adjusts the optimal reading range based on signal intensities, and built-in safety controls, which alert you to potential errors before they happen.



#### Catering to all applications, skill sets

Varioskan LUX is a versatile tool for busy labs. Configure the instrument to your needs, then upgrade when your research focus changes. Supports the following measurement technologies:

- Absorbance (UV-Vis, including pathlength correction)
- Fluorescence intensity (including FRET)
- Luminescence (direct and filtered, including BRET)
- AlphaScreen / AlphaLISA
- Time-resolved fluorescence (including TR-FRET, hTRF)

#### Flexible wavelength selection

The instrument selects the measurement wavelength using filters or monochromators, depending on which is optimal for each measurement technology:

- Monochromators in absorbance and fluorescence intensity
- Filters in AlphaScreen and time-resolved fluorescence
- Luminescence without wavelength selection (filters can be used if required)

The instrument also allows spectral scanning for ultimate flexibility for identifying the optimal measurement wavelength for any assay, now and in the future.

#### Varioskan LUX offers you

- Modular, upgradable system for customization to research needs
- Five measurement modes: end-point, kinetic, spectra, multipoint and kinetic spectra
- Spectral scanning for assay optimization
- Integrated gas module for atmospheric control of CO<sub>2</sub> and O<sub>2</sub> for cell-based assays
- Simultaneous dispensing and measurement for follow-up of fast reactions right from the reaction start
- Paired with Thermo Scientific™ SkanIt™ software for intuitive instrument control and easy data handling
- Smart safety controls help protect instrument and samples from user error
- Automatic dynamic range selects optimal reading range based on signal intensity
- Autocalibration and self-diagnostics for confidence in results



See it in action! Learn more in  
our product video on:  
[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)

## NEW: Thermo Scientific Fluoroskan, Fluoroskan FL and Luminoskan Microplate Readers

### Versatile workhorses for fluorometric and luminometric assays

The new Thermo Scientific™ Fluoroskan™, Fluoroskan FL and Luminoskan™ microplate readers are compact, robust and high quality products with excellent performance. Fluoroskan is a dedicated fluorometer, Fluoroskan FL is a combined fluorometer and luminometer, and Luminoskan is a dedicated luminometer. Together, the user-friendly instruments coupled with the modern, easy-to-use Thermo Scientific™ SkanIt™ Software, help contribute to an effortless microplate reader workflow. This reader-software package is a versatile and reliable tool for a variety of research applications.

- Reliable measurement data due to automatic instrument calibration during run
- Flexibility to read 6- to 384-well plates, onboard dispensers for automatic reagent addition, temperature control and orbital shaking
- Simultaneous dispensing and measurement for monitoring fast kinetics right from the reaction triggering (such as  $\text{Ca}^{2+}$  assays)
- Extensive selection of filters available for optimal wavelength selection for the assay
- High sensitivity for both top and bottom reading
- Versatile tools for data processing and instrument control with the SkanIt Software

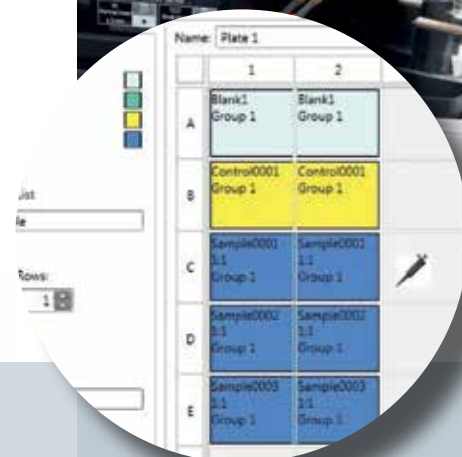
#### Applications:

- $\text{Ca}^{2+}$  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
- Oligonucleotide assays

#### Fast, versatile, and easy to learn SkanIt Software

SkanIt Software is easy to operate and streamlines workflow processes for a multitude of users with different needs and skill sets—those who require the basic features, and more experienced researchers who require advanced features and data processing. The software comes in two versions: Research Edition for life science research, and Drug Discovery Edition which offers features for compliance with the FDA 21 Part 11 for the drug discovery industry.

The optional reagent dispensers allow for easy and accurate reagent addition.



Innovative Virtual Pipetting Tool assists in defining samples to plate layout.



Ask now for more information on:

[www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)

## NEW: Thermo Scientific Multiskan Sky Microplate Spectrophotometer

For virtually any photometric research application

Thermo Scientific™ Multiskan™ Sky is a next-generation UV/Vis microplate spectrophotometer designed to be exceptionally convenient and easy to use for virtually any photometric research application, especially DNA, RNA, and protein analysis. It is ideal for multi-user environments where a variety of endpoint, kinetic, and spectral assays are run. Results are quickly provided and elegantly presented on the touchscreen models. The Multiskan Sky microplate spectrophotometer offers multiple connectivity options, including unique access to Thermo Fisher Connect cloud-based tools for secure and powerful remote data management. Additionally, the intuitive Thermo Scientific SkanIt PC software addresses even the most challenging applications. Multiple languages are available regardless of whether the instrument is operated via the touchscreen or the SkanIt software.

- Onboard interface completely redesigned and optimised for touchscreen use
- Ready-to-use built-in protocols allow fast and accurate quantification of nucleic acids and proteins using  $\mu$ Drop Plate, microplates, or cuvettes
- Thermo Fisher Connect cloud-based tools allow you to securely store, access, share, and manage your photometric data remotely
- Proven optical design provides quality measurements for a wide range of volumes and sample formats

### Powerful operation and data analysis with the Thermo Scientific™ SkanIt™ Software

The SkanIt software offers a comprehensive selection of built-in calculations, including blank subtraction, standard curves and concentration/dose-response curve fitting, classification, quality control, kinetic, and spectral analysis. Each user can install SkanIt software on his/her own computer to set up assays and analyse data.

### Thermo Scientific™ $\mu$ Drop™ Plate for microliter-scale nucleic acid and protein sample measurements

Analyse up to 16  $\mu$ l-scale samples simultaneously with the Thermo Scientific  $\mu$ Drop plate, a quick and easy tool for DNA and RNA assays using photometric measurement and sample volumes down to 2  $\mu$ l. The fixed light path of the  $\mu$ Drop™ plate allows direct calculation of the nucleic acid concentrations of the samples.





## Thermo Scientific KingFisher

### Automated purification system for a range of applications

#### Ensure sample purity

Successful downstream analysis depends on high-quality, reproducible purification of nucleic acids, proteins and cells. Thermo Scientific™ KingFisher™ purification systems are designed to deliver high-quality samples with minimal hands-on time, helping you optimize your workflow.

- Choose from four distinct systems to meet your application and throughput needs
- Optimized kits streamline the purification workflow for a wide variety of sample types
- Thermo Scientific™ BindIt™ software lets you create customized protocols for additional flexibility
- Specially designed consumables for efficient sample processing

#### Magnetic separation technology

KingFisher instruments use magnetic rods to move particles through the purification phases of binding, washing and elution to yield high-quality DNA, RNA and proteins. This revolutionary technology minimizes impurities, delivering samples that are ready for downstream analysis.



#### Diverse applications

KingFisher systems provide the flexibility required to meet evolving research needs, including prewritten protocols for a variety of applications.

- Nucleic acid purification from various starting materials including cell-free body fluids, blood, bacteria, cell culture and various tissues
- Protein applications including immunoprecipitation, affinity purification, fusion protein purification and phosphopeptide enrichment
- Cell separation including cancer or white blood cell isolation and bacterial cell separation

You can also customize existing protocols and create new ones for protein and cell applications with the versatile BindIt software.



## The Thermo Scientific KingFisher Family

Our revolutionary magnetic separation technology lets you process virtually any sample from any source for high quality isolation of nucleic acids, proteins and cells. With four systems to choose from, Thermo Scientific KingFisher platforms provide the performance, flexibility and speed for your budget, application and throughput requirements.



### KingFisher Flex

Versatile system designed to process up to 96 samples at a time, with volumes up to 5 mL.

- Four interchangeable magnetic heads for plates of various sizes—including 24- and 96-well and deep well plates, and PCR plates
- You can choose from a range of volumes (20-5,000  $\mu$ L), depending on the magnet head and plate.
- Can be integrated with liquid handling, robotics and plate-stacking instruments



### KingFisher Duo Prime

The KingFisher Duo Prime system automates purification processes for research and routine laboratories working with a smaller number of samples. The system delivers high quality yields with excellent reproducibility and reliability.

- Optional barcode reader
- Built-in UV lamp for effective decontamination
- Run 24 samples per load and 2 protocols sequentially
- Working volume: 30-5,000  $\mu$ L



### KingFisher Presto

Optimized to be part of an automated system using a liquid handler with a gripper or robot arm to load plates, or to integrate with other instruments, such as plate sealers or PCR instrumentation.

- Purify 96 or 24 samples at a time, depending on sample volume
- Working volume: 50-5,000  $\mu$ L

### KingFisher mL

The economical choice for easy operation of up to 15 samples.

- Working volume: 50-1,000  $\mu$ L carried out in tube strips

### BindIt Software

All KingFisher systems come with the flexible, dedicated BindIt software, which allows users to create and modify their protocols. Protocols for Invitrogen™ and Applied Biosystems™ nucleic acid and protein purification kits can be easily downloaded from [thermofisher.com](http://thermofisher.com). The flexibility of BindIt software allows users to optimize their protocols before transferring them into the instrument's memory to run in an automated environment.

### KingFisher Consumables

Made of polypropylene, are ideal for magnetic particle processing due to their low binding affinity for biomolecules. Both the yield and the quality of the isolated DNA/RNA are significantly improved with special KingFisher plates and tips.

### Applied Biosystems MagMAX Kits

Using KingFisher instruments with MagMAX™ kits provides a proven, convenient system for purifying nucleic acids for downstream applications such as real-time PCR and next-generation sequencing. Optimized MagMAX protocols can be easily downloaded from the BindIt software page.



### KingFisher

Allows users to purify small-scale samples economically. All purification and processing steps, programmed using simple push-button operation, are carried out in microstrips.

- Run up to 24 samples
- Working volume: 20 - 200  $\mu$ L

## Thermo Scientific KingFisher Presto Sample Purification System

### Automating the extraction of DNA, RNA and proteins

Our Thermo Scientific™ KingFisher™ Presto sample purification instrument is optimized to be part of an automated system using a liquid handler with a gripper or robot arm to load plates, or to integrate with other instruments, such as plate sealers or PCR instrumentation. The instrument utilizes proven KingFisher magnetic particle-based technology to provide high-quality yields of target nucleic acids and proteins for biopharma, biotech and research projects in high throughput laboratories. Its small footprint is ideal for automation and helps you save space in the lab, while still offering high purification capacity and proven performance. The KingFisher Presto system is a reliable and robust tool for nucleic acid or protein purification.



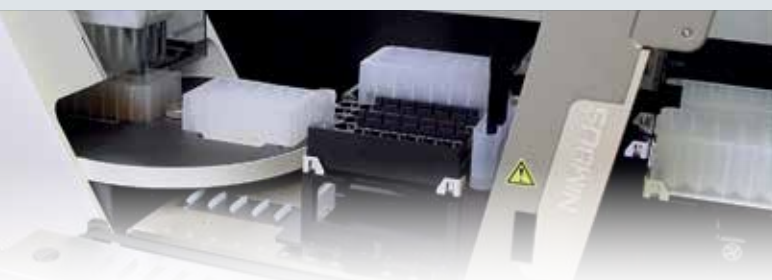
#### Increased efficiency

The KingFisher Presto has a turntable with two plate positions - one processing position under a magnetic head and another position where new plates are loaded in intervals. Two interchangeable magnetic heads are available—one for 24 deep-well plates, and one for 96 deep-well (DW) and standard KF 96 plates.

- Easy connection to several liquid handling instruments
- Minimized size of turntable for easy fitting into the automation systems
- Purify 96 or 24 samples at a time, depending on sample volume
- Volume range of 50–5000 µL (depending on the magnetic head) for up/down scaling of the application
- Two magnetic head options offering flexibility in sample and reagent volumes

#### Enhanced with specially designed consumables

The KingFisher Presto may be used with 24- or 96-head magnets, depending on the volume and throughput requirements. It works best with specially designed polypropylene KingFisher plates and tip combs, which are suitable for many biological applications due to their low binding characteristics. The plates are stackable and are designed so that a robotic arm can easily pick up and move one plate and tip comb set at a time. Sterile versions are available for those applications requiring absolute purity. When used together, these proprietary magnetic heads and consumables help to optimize the performance of KingFisher systems.



Learn more about the KingFisher Presto as a part of an automated purification system in our video on [www.thermofisher.com/hal-lh-nordic](http://www.thermofisher.com/hal-lh-nordic)

#### Fit for an automated system

The KingFisher Presto is designed exclusively for an automated system. Due to its small size, the KingFisher Presto can be placed either on the deck of an automated liquid handling instrument or on the side. The design also allows users to configure several KingFisher Presto units side by side, next to a liquid handler, minimizing the space required. The instrument can be hooked into the automated system using USB, RS232 or LAN connection, and will run the desired purification protocols from its internal software.



# Support Plans for Pipettes

## Secure the Quality of Your Results

### Our Values

**Exceptional Care:** Whether it's cGLP, cGMP, critical research, academia, or any special requirements you may need, our experienced service personnel are highly trained in all pipette models.

**For more than 25 years, we have offered quality-minded service** that meets our customers' diverse needs. You will feel confident that your pipettes will have the accuracy and performance you require, when you need them.

- Tailored solutions to fit your unique needs
- Reliable depot and on-site options
- Servicing all brands of pipettes

### Pipette Support Plans available for single and multi-channel pipettes

#### Basic – Validation-Fast Check

The Validation-Fast Check Plan combines a thorough external pipette inspection with gravimetric validation to determine if desired accuracy and precision is achieved. This plan includes a calibration certificate and sticker.\*

Ideal for customers who require:

- An interim validation check that occurs in-between routine scheduled preventive maintenance and calibration
- Repairs for dropped/disassembled pipettes or want to make sure pipettes are performing as desired
- A cost-friendly service option

**Quick, convenient and effective**

Measurement Process	2 x 5	3 x 10
As-Received	NA	NA
Inspection	External	External
Preventive Maintenance	NA	NA
As-Returned	Yes	
Number of Tip Cones	1 Center Nozzle	
Certificate & Calibration Sticker	Yes <sup>(2)</sup>	

To learn more about our services, visit  
[www.unitylabservices.com/pipette](http://www.unitylabservices.com/pipette)

**Unity** Lab Services  
A Thermo Fisher Scientific Brand

## Pipette Support Plans available for single and multi-channel pipettes

### Preferred - Preventive Maintenance and Calibration

The Preventive Maintenance and Calibration Plan provides a thorough inspection, preventive maintenance and calibration. This plan includes a calibration certificate and sticker.\*

Ideal for customers who require:

- Pipette inspection, liquid leak test, routine preventive maintenance and minor repairs
- Do not need as-received data
- Calibration

**Thorough, effective and dependable**

### Premium – GxP Preventive Maintenance and Calibration

The GxP Preventive Maintenance and Calibration Plan provides a comprehensive service that includes gravimetric evaluation of your pipette's performance prior to any inspection, preventive maintenance or minor repairs. This plan includes a calibration certificate and sticker.\*

Ideal for customers who require:

- As-received data
- Pipette inspection, liquid leak test, routine preventive maintenance and minor repairs
- Calibration
- Work in a highly regulated environment
- Reduced OOTs (Out of Tolerance) that could invalidate research

**Demanding, thorough and reliable**

\* 3x10 Calibration can be performed under FINAS accreditation in Finland, COFRAC in France, DAKKS in Germany.

Measurement Process	2 x 5		3 x 10	
As-Received	NA		NA	
Inspection	Yes <sup>(1)</sup>		Yes	
Preventive Maintenance	Yes <sup>(1)</sup>		Yes	
As-Returned	Yes			
Number of Tip Cones	1	8	12	16
Certificate & Calibration Sticker	Yes			

Measurement Process	2 x 5		3 x 10	
As-Received	Yes		Yes	
Inspection	Yes <sup>(1)</sup>		Yes <sup>(1)</sup>	
Preventive Maintenance	Yes <sup>(1)</sup>		Yes <sup>(1)</sup>	
As-Returned	Yes			
Number of Tip Cones	1	8	12	16
Certificate & Calibration Sticker	Yes			

<sup>(1)</sup> Unity Lab Services provides a detailed 15-point pipette inspection of the following single and multi-channel manual and electronic components to identify potential concerns:

1. Plunger Button (as applicable);
2. Plunger Rod (as applicable);
3. Volume Lock (as applicable);
4. Pipette Body and Display;
5. Tip Ejection and Ejector Mechanism;
6. Shaft Coupling Nut (as applicable);
7. Tip Cone(s);
8. Piston(s) Assembly;
9. Seal(s) (as applicable);
10. O-ring(s);
11. Springs;
12. Lubrication (as applicable);
13. Battery Recharging (as applicable);
14. Electronics Functionality (as applicable);
15. Motor Movement (as applicable))

<sup>(2)</sup> If a pipette fails Validation-Fast Check, the customer can request to be contacted with a recommended service course of action (i.e. GxP Preventive Maintenance and Calibration Plan.).

## Thermo Scientific Laboratory Equipment

Reliable. User-friendly. Innovative.

Our comprehensive Thermo Scientific portfolio of equipment, accessories and services is designed for outstanding sample preparation, analysis, storage and protection. Used by researchers worldwide our equipment solutions include centrifuges, refrigerators and freezers, ovens, incubators, shakers, biological safety cabinets, water baths, water purification systems and more. Amongst others, our well-known Thermo Scientific™ Centrifuge product lines stand for reliability and innovations for more than 100 years.



### Benchtop Centrifuges and Rotors

- From microcentrifuges to general purpose centrifuges
- Ideal for clinical and life science applications
- Thermo Scientific™ ClickSeal™ biocontainment lids for one-handed sample protection
- Thermo Scientific™ Auto-Lock™ rotor exchange
- Lightweight Thermo Scientific™ Fiberlite™ carbon fiber rotors



### Biological Safety Cabinets and Clean Benches

- Designed to maximize sample protection and operator safety
- Thermo Scientific™ SmartFlow™ technology features dual-DC motors
- Display of performance factor (PER) indicates safety status
- Aerosol-tight window sealing
- Exceptional comfort and ergonomics



### CO<sub>2</sub> Incubators

- For optimal cell growth
- Contamination prevention technology
- Stable culturing conditions and performance reliability
- Decontamination cycle at 180 °C
- Thermo Scientific™ THRIVE™ active airflow technology
- Stainless steel or 100% pure copper chamber
- Condensation free system



### Floor Centrifuges

- Low speed models
- Superspeed centrifuges
- Ultra and micro-ultra centrifuges
- Featuring innovative technologies: Auto-ID instant rotor identification, Auto-Lock™ rotor exchange, ClickSeal™ biocontainment lids and Fiberlite™ carbon fiber rotors
- Up to 8 x 2 litres sample volume
- RCF up to 1 M x g
- Broad selection of rotors for multiple applications



### Microbiological Incubators

- From small benchtop incubators to large floor models
- Decontamination routine available for larger models
- Dual convection technology

### Ovens and Furnaces

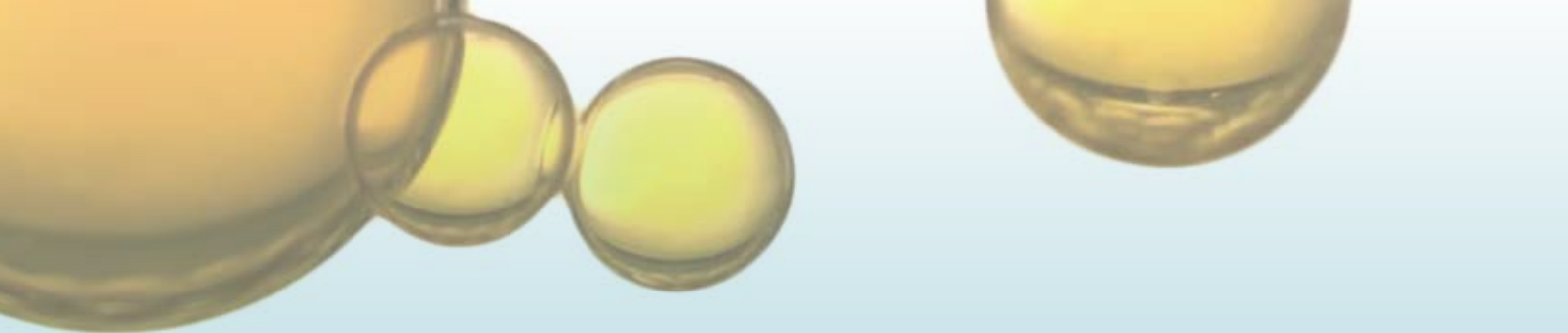
- Heating and drying ovens for up to 330 °C
- Vacuum ovens for up to 200 °C
- Muffle furnaces for up to 1,200 °C
- Highest standard in sample and user protection



### Wireless Monitoring Systems

- Continuously monitor and report conditions in real time: temperature (-196 °C to +350 °C), relative humidity (RH), differential pressure (clean rooms), CO<sub>2</sub> concentration, 4-20 milliamps and dry contact state
- Secure logging of data and early warning alerts





#### Refrigerators, Freezers, Ultra-low Freezers and Cryopreservation Systems

- For short, medium and long-term sample storage
- Comprehensive portfolio from +4 °C refrigerators to -196 °C cryogenic freezers and transport systems
- Capacity from 145 to 2,100 litres
- Outstanding temperature recovery time
- Natural refrigerants



#### Water Purification Systems and Cartridges

- Water purification systems for various application needs: starting from 15 L per day - type 1 ultrapure, type 2 pure and reverse osmosis systems
- Water purification systems for clinical analyzers
- Deionizer cartridges for fully demineralized water



#### Other Laboratory Products

- Rockers, rotators and shakers
- Hotplates, stirring hotplates and stirrers
- Mixers and drybaths
- Electrophoresis systems
- Vacuum concentrators



#### Water Baths

- Rugged, high-performance baths for water temperatures from ambient to 100 °C
- Capacity from 2 to 89 litres

#### Circulators

- Cooling / heating with temperature range from -50 °C to 300 °C
- Compact design with maximum capacity
- Energy-saving operation
- Ease of use



#### Water Analysis Instruments

- Benchtop meters with pH / ISE, conductivity and dissolved oxygen / RDO modules
- Benchtop or portable instruments for laboratory or field applications
- Maximum configuration flexibility
- Easy-to-use features
- Data log and export via USB

## Unity Lab Services

A Thermo Fisher Scientific Brand

#### Service

- Instrument services for your laboratory: support plans, depot repair, and instrument compliance services

## Thermo Scientific Laboratory Consumables

Comprehensive. High quality. Proven.

Our well-established Thermo Scientific™ Nalgene™ und Thermo Scientific™ Nunc™ product lines cover a wide range of products for science and research, clinical diagnostics, industrial production as well as transport and storage of valuable samples, intermediate products or hazardous substances.



### Cell Culture and Bioproduction

- Wide range of formats, sizes and surfaces
- Flasks, dishes, multidishes and microplates
- Chamber slides
- Serological pipettes
- Centrifuge tubes and bottles
- Thermo Scientific™ Nunc™ Cell Factory™ systems
- Roller bottles, biotainers and single-use PET shaker flasks
- Custom cleaning service with method USP 788 for Nalgene bottles with up to 50 litres
- Customized closed single-use systems



### Sample Storage

- Nalgene and Nunc cryotubes: certified DNase- and RNase-free, sterile (SAL 10<sup>-6</sup>), non-cytotoxic, pyrogen-free and CE certified
- Cryotubes available external or internally threaded
- 2D barcoded tubes
- Cryoboxes and freezing containers
- 2D barcode readers
- Heat Sealers
- Thermo Scientific™ SampleArray™ tube handler
- Capping and decapping systems
- PP storage microplates



### General Labware

- Beakers, cylinders
- Erlenmeyer flask
- Bottles and carboys
- Drop-dispensing bottles and wash bottles
- Tubing and tubing systems
- Wide range of resins and sizes
- Plastic labware is less likely to break or shatter than glass



### Filters

- Filter units and bottletop filters
- Analytical filter funnels and units
- Syringe filters
- Filter membranes
- Available with different membrane types: PES (polyethersulfone), SFCA (surfactant-free cellulose acetate), CN (cellulose nitrate) and NYL (nylon)



### Packaging

- Diagnostic bottles
- IP2 bottles
- Micro packaging vials
- Narrow and wide-mouth bottles
- Dropper bottles
- Square bottles
- Media bottles
- Teflon™-bottles
- Range of materials: LDPE, HDPE and FLPE bottles, autoclavable PPCO, FEP and PFA bottles, as well as presterilized PET and PETG bottles



### Diagnostics

- Broad range of surfaces and formats
- Covalent and affinity binding
- Colorimetric assays and ELISA
- Solid phase and liquid phase assays
- Luminescence and fluorescence assays
- Custom capabilities
- Technical expertise

### Clinical Consumables

- Single-use plastics for microbiology environment
- Containers, petri dishes, tubes, transfer pipettes and other associated products

## Technical Support for Thermo Scientific Laboratory Products

Let our knowledge work for you!

With the European Technical Support Program for Thermo Scientific Laboratory Products we provide technical support with the highest level of consistency, responsiveness and competency. By focusing on a complete solution our goal is to simplify and assist your daily routine with Thermo Scientific products.

### What is the scope of our service?

- Technical and applications support provided by a team of skilled specialists with scientific backgrounds
- Three languages: English, French and German
- Covering all key application areas: cell culture, sample storage, biobanking, bioproduction, clinical, diagnostics, molecular biology
- Thermo Scientific™ Nalgene™, Nunc™, Matrix™, Sterilin™, Samco™, Capitol Vial™, I-Chem™ and EP-Scientific™ laboratory products
- Liquid Handling – manual and automated liquid handling products (e.g. Thermo Scientific™ ClipTip™), sample preparation and analysis equipment, microplate instrumentation (e.g. Thermo Scientific™ Multidrop™) nucleic acid purification systems (e.g. Thermo Scientific™ KingFisher™) and consumables
- Thermo Scientific™ Orion, Eutech™, Oakton™ water analysis instruments for measuring pH, turbidity, dissolved oxygen and ion concentration (ISE)

### Why and when should you contact our Technical Support team?

- Pre and post sales product support
- Product-related questions regarding specifications, applications, performance and quality
- Requests for certificates, technical drawings, user instructions or other documentation
- Questions about selecting the optimum product for your application
- Regulatory and product compliance enquiries
- Complaints concerning product quality

Please address your enquiries about order updates and delivery status, quotations and pricing to our Customer Service, your Sales Representative or your Distributor. Requests for instrument repair and spare parts should be addressed to Unity Lab Services.



## Simply contact us!

International calls: +49 6184 90 6321

E-Mail: [techsupport.labproducts.eu@thermofisher.com](mailto:techsupport.labproducts.eu@thermofisher.com)

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Under the Thermo Scientific brand of Thermo Fisher Scientific, Inc. we help scientists meet the challenges they face in the lab or in the field every day.

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