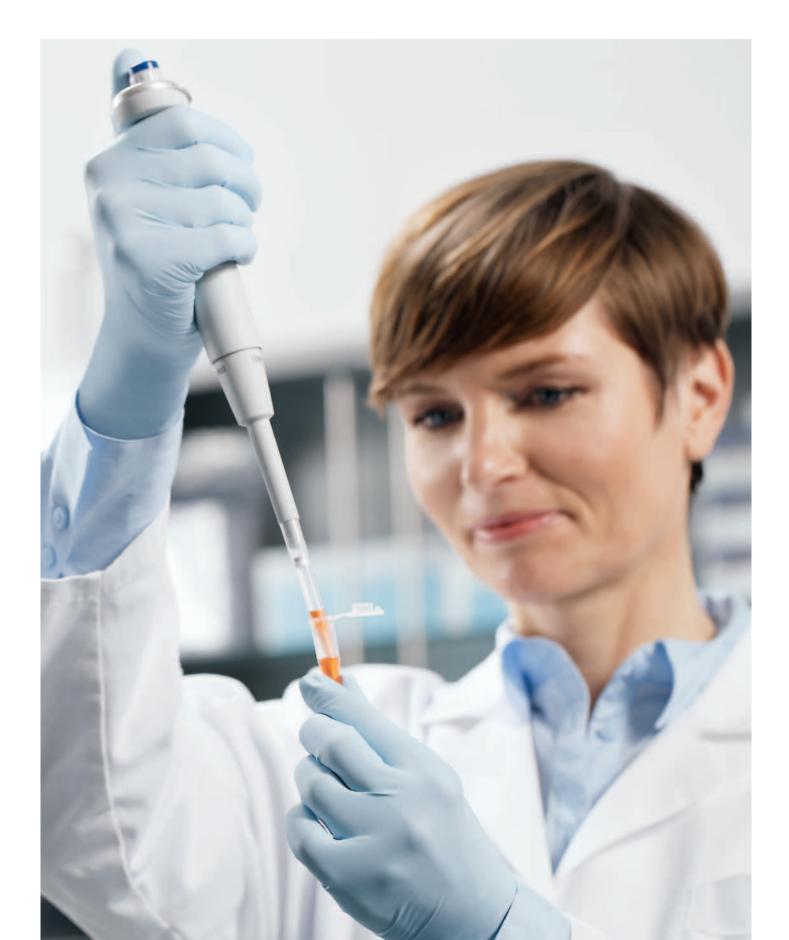# Natural Winners

Eppendorf Liquid Handling Instruments:
Unrivaled in technology, efficiency and handling—for 50 years.

»Only a hand at ease develops its full potential for precision.«

Perfection lies in the details—this a principle that definitely holds true for our hand-held pipettes and associated consumables. A history of over 50 years in liquid handling has resulted in award-winning designs, cutting-edge production, optimal materials selection and products that are harmonized for the utmost performance—guaranteeing the quality you deserve.

The Eppendorf Liquid Handling Instrument Portfolio

As the inventor of the microliter system, we at Eppendorf have over fifty years of experience in precise manual and automatic pipetting/dispensing and transferring of the smallest quantities of liquids. The standards defined by Eppendorf quality assurance (for example, precision and accuracy guidelines) clearly surpass the standards required to obtain these results, and guarantee the reproducibility that our customers have come to depend on.

PhysioCare Concept
> The use of our liquid handling products has been proven to reduce physical and psychological strain to a minimum by following the rules of the Physio Care Concept.

Made in Germany
> Our manufacturing facility for liquid handling products is located in Germany and thus guarantees highest quality.

RedDot
> Nearly all our liquid handling products have received a red dot award for outstanding design quality.

NEW!

Eppendorf Reference® 2

The new legend

The name »Reference« stands for extraordinary precision and accuracy, a long service life, and an ergonomic design.

The new Reference 2 boasts these proven premium characteristics and this operating philosophy with its innovative state-of-the-art technology, making it a reliable partner for you and your demanding work.

Product benefits

> Movable parts and external edges made of stainless steel equip the pipette with outstanding robustness at potential impact sites and for internal components
> High precision and accuracy provides reliable results
> 4-digit display for exact volume setting (clearly visible from every angle)
> Quick and secure volume setting, including volume lock
> Fully autoclavable
> Color coded and volume labeling for quick identification of the volume size/tip size
> Round upper part makes it possible to work in every position

Multi-channel version NEW

> Channel indicator guarantees a continuously identical pipette alignment during the work process
> Spring-loaded tip cone for reproducible tip fit and reduced effort (can be switched on/off optionally) during tip ejection
> High flexibility and simple maintenance with the option of removing single cones

reddot design award
winner 2013

CE
IVD *

Unique surface
> Few rough edges
> Smooth surface for comfortable working and simple cleaning

Sturdy Upper Handle
> Guarantees long service life and increased robustness

1000

Spring-loaded tip cone
> Improved reproducibility
> Low effort during operation/ejection

> Reference 2: Extraordinary reproducibility and reliability for challenging tasks.
www.eppendorf.com/reference2

Eppendorf Research® plus

Single-button operation
> Ergonomic handling with
  reduced operating effort
> Simple and quick tip ejection
> Reduces repetitive strain
  injuries by not requiring
  lateral thumb movement
> Haptic feedback before
  tip ejection

**User-friendly
secondary adjustment**

Heightened traceability
> Serial number is printed
  on multiple components
  of the pipette
> Internal RFID technology
  contains relevant data on
  the Reference 2
  (www.eppendorf.com/trackit)

**A pipette is only as
good as its tip**
> Eppendorf epT.I.P.S.®
  pipette tips, Totally
  Integrated Pipetting System
> Maximum precision
  and reliability

Raise the limits
Eppendorf sets a new standard in ergonomics!
This ultralight pipette meets the highest needs in
precision and accuracy—combined with ultimate
ergonomics and increased flexibility.
   A spring-loaded tip cone, a secondary adjustment
option, an improved volume display—and all that in
an ultra light, fully autoclavable pipette: That is the
Eppendorf Research plus pipette.

Product benefits
> Ultra light with minimal pipetting forces
> Ideal ergonomics:
  Eppendorf PhysioCare Concept®
> 1-channel-, 8-channel- and 12-channel pipettes
> Spring-loaded tip cone

1 Dispensing button
> Very low operating force
> Color indicates pipette volume
> Positioned for perfect ergonomics
2 Volume adjustment system
> Only a few turns to reach
  your desired volume
3 Ejector
> Very low operating force
> Positioned for perfect ergonomics
4 Adjustment display and opening
> Adjust your pipette to a specific liquid
5 Eppendorf PerfectPiston system
> Ultra light system made of Fortron
6 Quick connection clip
> Remove lower part easily

reddot design award
winner 2009

CE
IVD
*

> The ideal pipette for ergonomically
  optimal work.
  www.eppendorf.com/research-plus

Eppendorf Xplorer®

Simply better pipetting

People who give 100 % every day deserve the best tools and the best equipment. You work on demanding problems, and important decisions depend on the results of your work.

With the Eppendorf Xplorer, your work achieves a new level of simplicity, precision and reproducibility, which means no more delays due to complicated programming or inflexible processes.

Product benefits
> Intuitive handling: Selection dial and multi-function rocker
> Optimal ergonomics: Eppendorf PhysioCare Concept®
> High reproducibility: Spring loaded tip cone and individual adjustment

1 Multifunctional rocker
> Simple logic: the "Up is up and down is down" principle

2 Selection dial
> All functions at a glance and easily selectable

3 Innovative ejector
> After tip ejection, the piston automatically returns to the zero position

4 Function control softkeys
> Edit and Help at the push of a button

5 Convenient handle
> Ergonomic design according to the PhysioCare Concept

6 Modern color display
> Self-explanatory with all parameters—without submenus

7 Powerful rechargeable battery
> Long service life without charging

8 Separate power socket
> Work continues while charging

9 History function
> Automatically saves the last 10 sets of parameters (can be selected as an alternative to the Help function)

reddot design award
best of the best 2010

> Simple and fast handling of routine applications. Further information on www.eppendorf.com/xplorer

Eppendorf Xplorer® plus

The future in your hands

The protection of resources, time savings and guaranteed precision are important aspects of lab work everywhere. In some areas the requirements even go beyond these high standards—every second counts and errors can lead to severe consequences. Eppendorf Xplorer plus was developed for the highest of these requirements!

With its additional intelligent applications, adjustable fixed volumes and individual programming tasks are performed much faster and easier. The Xplorer plus also includes a history function that automatically saves the last parameters for faster handling! A password can be entered to guarantee the highest degree of protection for your programming and settings.

To ensure the adherence of service intervals and thus guarantee the accuracy of your results, the Xplorer plus offers an integrated service reminder. You can choose a reminder based on the period of time or on the frequency of use.

The extended version of the Eppendorf Xplorer is the perfect choice for all users who simply need a little extra—more safety and speed every day!

On/off switch
Switches the pipette off during longer periods of inactivity

Display of service intervals
Pipette maintenance reminder function, based on time or frequency of use as desired

Individual speed setting
Sets parameters to your individual working speed

Password protection
Protects programming and adjustment

Individual programming
One-time programming of sequences for simple handling of complex processes or recurring fixed volumes

> The perfect instrument for everybody who simply needs advanced speed, safety and reliability.
  www.eppendorf.com/xplorer

Eppendorf Consumables

The perfect match

Each of your valuable samples deserves best treatment. See for yourself how Eppendorf pipette tips will save time and reduce costs.

With respect to material, fit, design and operating forces, our pipette tips set new standards. The immediate environment of each sample should be adapted to its specific quality and purity needs. This can involve a specific purity level or the absence of certain substances, but also stability, reliability, or geometry. Eppendorf pipette tips are designed to cover all of the specific needs of your samples!

Product benefits

> epT.I.P.S.® LoRetention pipette tips: Pearl effect technology for best results while
> pipetting solutions containing detergents
> ep Dualfilter T.I.P.S.®: Maximum protection of pipette and sample through our
   unique two-phase filter technology

> www.eppendorf.com/consumables

NEW!

Eppendorf Multipette® M4

Count on it

The ideal precision instrument for completing long pipetting or dispensing series. Even liquids which are difficult to pipette are no match for the Multipette M4.

On the Multipette/Combitip system, volumes are dispensed using the positive displacement principle. The liquid is directly dispensed without an air cushion, ensuring the correct volume is always dispensed regardless of the density, viscosity and volatility of the liquid.

In addition to serial dispensing, the Multipette is also the perfect instrument to go beyond the limitations of a standard pipette.

Product benefits

> Automatic Combitip recognition eliminates time-consuming volume calculations
> Repetitive dispensing modes decrease the number of movements by allowing the user to fill the tip once and dispense up to 100 times without a refill
> Wide dispensing range: 1 μL to 10 mL
> Stress-free work via integrated step counter: dispensing procedures can be continued error-free after an interruption or distraction
> Central Combitip ejector: fully emptied Combitip can be easily ejected with one hand using the operating lever
> Perfect for viscous or foaming solutions and liquids with high vapor pressure through direct displacement principle
> Safe handling of toxic, radioactive or infectious material

reddot design award
winner 2013

Volume selection dial
> 20 different volume settings for every Combitip size

Hand rest
> Supports a relaxed hand position and ease of use

Motion sensor
> Switches off the Multipette M4 when not in use, and back on with minimal movements to save power and time

Combitip sensor
> Automatic Combitip recognition and volume display

> Time savings through acceleration of long pipetting series. Contamination-free and highly accurate dispensing of all kind of liquids.
www.eppendorf.com/m4

Eppendorf Multipette stream®/ Multipette Xstream®

Step counter
> Displays the number of
  executed dispensing steps

**Ergonomically shaped
operating lever**
> Dispenses the liquid
  and ejects the Combitips®

Embedded RFID chip
> Contains relevant data
  on the Multipette
  (www.eppendorf.com/trackit)

**Ergonomically shaped
filling lever**
> For filling and emptying
  Combitips advanced®

Dispensing at its best
These electronic dispensers combine easy handling during dispensing with a broad range of features! The Multipette stream is suitable for all standard dispensing applications. For high-end applications, such as titration and aspirating of supernatants or sequential dilutions, the Multipette Xstream is your hand dispenser of choice.
  In combination with the Combitips advanced®, it is an essential lab tool for all liquid handling applications.

Product benefits
> Speed adjustment for the utmost in
  precision and accuracy while also
  preventing splashing
> Wide dispensing range: 1 µL to 50 mL
  provides up to 2,500 dispensing
  volumes with increments as low as
  100 nanoliters.
> Motor-driven function reduces
  human error to a minimum

> Intuitive operation
> Perfect for viscous or foaming
  solutions and liquids with high vapor
  pressure through direct displacement
  principle
> Safe handling of toxic, radioactive or
  infectious material

1 Selection dial
> For different operations (dispensing,
  pipetting, autom. dispensing, titration,
  sequential dispensing and aspirating)
2 Select rocker switch
> Easy parameter setting (e.g. amount of
  volume, dispensing speed)
3 +/- rocker switch
> Easy change of volume and
  other parameters

4 Actuate key
> Motor-driven Combitip filling
> ≤100 dispensing steps without refilling
5 Tip ejector
> Touchless Combitips release
6 Combitip sensor
> Automatic Combitip recognition and volume
  display

reddot design award
winner 2006

> Time savings through acceleration of long pipetting series, with highest
  volume flexibility and lowest outside fault effects. Contamination-free and
  highly accurate dispensing of all kinds of liquids
  www.eppendorf.com/multipettexstream

Eppendorf Combitips advanced®

The NEW Eppendorf Combitips advanced® have been completely redesigned and optimized to meet all the needs of any modern laboratory. The Combitips advanced also function according to the positive displacement principle, thus they always dispense the correct volume independently of the density of the liquid and its flow characteristics (e.g. increased vapor pressure or increased viscosity). Working with radioactive or toxic materials is also safer due to the hermetically sealed piston, which prevents aerosol contamination.

Product benefits

> Combitips advanced are the ideal system components for all Eppendorf Multipettes
> The 9 volume sizes (0.1 mL–50 mL) offer a maximum range of dispensing volumes
> New elongated Combitips in volumes 2.5 mL, 5.0 mL and 10 mL make it possible to reach the bottom of the most common laboratory vessels.

> Individual color coding facilitates quick identification of the desired Combitips
> The unique funnel geometry ensures comfortable handling while preventing damage to gloves.
> Combitips advanced are offered in 3 different purity grades to support any application

> The perfect fit for all Eppendorf Multipettes
   www.eppendorf.com/combitipsadvanced

Biomaster®

The Biomaster is an adjustable pipette for the volume range 1–20 µL that uses the positive displacement principle.

The formation of aerosols, which is a common cause of contamination (e.g. during amplification of nucleic acids) is thus completely eliminated.

Varipette®

The Varipette is a continuously adjustable pipette that works according to the positive displacement principle. Thus the pipette is especially designed for precise pipetting of liquids with high vapor pressure or viscosity. The pipette tips are tailored to different vessels.

The Eppendorf Varitip® P is designed for aspirating 1 mL to 10 mL, for example from beakers. The Eppendorf Varitip® S for 2.5 mL to 10 mL forms a system with the Maxitip and is used for aspirating liquid from tall, narrow-necked vessels.

Varispenser® plus and Eppendorf Top Buret™

Our Varispenser and Varispenser plus are ideal for dispensing aliquots of liquid from large supply bottles. Their smart design makes them capable of extracting reproducible dispensing volumes with no reagent waste. Their tight seal provides best possible protection against contact with caustic media, such as solvents, and they are chemically resistant and fully autoclavable for the utmost in safety for you and your lab.

Our innovative Top Buret sets new standards for manual titration. Its pulse-free dispensing technique allows the desired volumes to be dispensed continuously, thus making titration simpler and safer, with precision values well within required limits. This bottle top burette is extremely sturdy, and its user-friendly display and control features provide simple, fatigue-free operation. Recirculation valve with a valve toggle saves valuable reagents.

Easypet®

Accurate, safe and fatigue-free pipetting is bliss with the Eppendorf Easypet® pipette controller.
    The device responds exactly to finger pressure for slow or rapid aspiration, setting the meniscus or emptying the pipette. With the lightweight Easypet, the dispensing of long series is effortless and simple and your everyday lab work becomes much easier.

reddot design award
winner 2013

Eppendorf Pipet Helper®

The Eppendorf Pipet Helper is a perfect instrument for inexperienced users, as its robust and intuitive design allows everybody to adjust the meniscus precisely. In addition, the valve unit is optimized so that liquids can be drawn up simply, without exerting pressure. The aspiration bulb provides rapid filling of the pipette. The aspiration and dispensing of liquids are controlled gently by the ergonomic lever. A splash-free blowout is additionally provided. The specially designed aspirating cone ensures secure seating for all measuring and volumetric pipettes (glass and plastic).

Selection Guide

Model	Eppendorf Reference® 2	Eppendorf Research® plus	Eppendorf Xplorer® Xplorer® plus	Eppendorf Multipette® M4	Eppendorf Multipette® stream Multipette® Xstream
Product type	Pipette	Pipette	Pipette	Dispenser	Dispenser
Operation	mechanical, combined control button and ejector	mechanical, separate control button and ejector	electronic, separate control button and ejector	mechanical	electronic
Pipetting type	air-cushion	air-cushion	air-cushion	positive displacement	positive displacement
Positioning	Reliability in robustness and results.	Ultra light weight and pipetting force for ultimate ergonomics.	Intuitive and fast pipetting.	Time savings through acceleration of long pipetting series with low outside fault effects.	Time savings through acceleration of long pipetting series, with highest volume flexibility and lowest outside fault effects.
Application	pipetting of aqueous liquids	pipetting of aqueous liquids	pipetting of aqueous liquids	contamination-free dispensing (up to 100 steps per Combitip filling) of aqueous, viscous and volatile liquids	contamination-free dispensing (up to 100 steps per Combitip filling) of aqueous, viscous and volatile liquids
Volume range	10 mL	10 mL	0.5 µL–10 mL	1 µL–10 mL	1 µL–50 mL
Available options	1-channel 8-channel 12-channel	1-channel 8-channel 12-channel	1-channel 8-channel 12-channel	1-channel	1-channel
RFID tracking	yes (read & write option)	yes (read option)	yes (read & write option)	yes (read option)	yes (read & write option)
Autoclavable	yes	yes	yes (lower part)	no	no
Consumables	epT.I.P.S.® and other pipette tips	epT.I.P.S.® and other pipette tips	epT.I.P.S.® and other pipette tips	Combitips advanced®	Combitips advanced®
Purity grades of consumables	> Eppendorf Quality™ > PCR clean > Eppendorf Biopur® > Sterile	> Eppendorf Quality™ > PCR clean > Eppendorf Biopur® > Sterile	> Eppendorf Quality™ > PCR clean > Eppendorf Biopur® > Sterile	> Eppendorf Quality™ > PCR clean > Eppendorf Biopur®	> Eppendorf Quality™ > PCR clean > Eppendorf Biopur®

Biomaster®	Varipette®	Varispenser/ Varispenser plus	Eppendorf Top Buret™	Easypet®	Eppendorf Pipette Helper®
Pipette	Pipette	Bottle-top dispenser	Bottle-top burette	Pipette controller	Pipette controller
mechanical, combined control button and ejector	mechanical	mechanical	electronic	electronic	mechanical
positive displacement	positive displacement	air-cushion	air-cushion	air-cushion	air-cushion
Contamination-free pipetting.	Pipetting with reduced outside fault effects.	Dispense small amounts of danger-ous chemicals like acids or bases from large supply bottles.	Continuous and plus-free manual titration.	Overall ergonomic concept with new speed control for stress-free pipetting.	A perfect instrument for inexperienced users owing to its robust and intuitive design.
pipetting of aqueous, viscose and volatile liquids	contamination-free pipetting of aqueous, viscose and volatile liquids	single stroke dispensing of acids, bases and other aqueous liquids	titration of aqueous liquids	pipetting of aqueous liquids	pipetting of aqueous liquids
1–20 µL	1–10 mL	0.5–100 mL	0.1–999.9 mL	0.1–100 mL	0.1–100 mL
1-channel	1-channel	1-channel	1-channel	1-channel	1-channel
no	no	no	no	yes (read option)	no
yes	no	yes	no	no (yes: pipette adapter and aspirating cone)	yes
Mastertips	Varitips	–	–	Eppendorf Serological Pipettes and other volumetric and serological pipettes	Eppendorf Serological Pipettes and other volumetric and serological pipettes
> Eppendorf Quality™	> Eppendorf Quality™	–	–	> Sterile > free of detectable Rnase & Dnase > free of detectable pyrogens > free of detectable DNA	> Sterile > free of detectable Rnase & Dnase > free of detectable pyrogens > free of detectable DNA

Eppendorf Reference® 2

Eppendorf Reference® 2, single–channel variable*[1]

Description	Volume	Systematic error*[2]		Random error*[2]		Order no. (international)	
		± %	± µL/mL	± %	± µL/mL		
0.1–2.5 µL ■ dark gray	0.1 µL	±48.0	±0.048	± 12.0	±0.012	4920 000.016	
	0.25 µL	±12.0	±0.03	±6.0	±0.015		
	1.25 µL	±2.5	±0.031	±1.5	±0.019		
	2.5 µL	±1.4	±0.035	±0.7	±0.018		
0.5–10 µL ■ medium gray	0.5 µL	± 8.0	± 0.040	± 5.0	±0.025	4920 000.024	
	1 µL	±2.5	±0.025	±1.8	±0.018		
	5 µL	±1.5	±0.075	±0.8	±0.04		
	10 µL	±1.0	±0.10	±0.4	±0.04		
2–20 µL ■ light gray	2 µL	±5.0	±0.10	±1.5	±0.03	4920 000.032	
	10 µL	±1.2	±0.12	±0.6	±0.06		
	20 µL	±1.0	±0.20	±0.3	±0.06		
2–20 µL ■ yellow	2 µL	±5.0	±0.10	±1.5	±0.03	4920 000.040	
	10 µL	±1.2	±0.12	±0.6	±0.06		
	20 µL	±1.0	±0.2	±0.3	±0.06		
10–100 µL ■ yellow	10 µL	±3.0	±0.3	±0.7	±0.07	4920 000.059	
	50 µL	±1.0	±0.5	±0.3	±0.15		
	100 µL	±0.8	±0.8	±0.20	±0.20		
20–200 µL ■ yellow	20 µL	±2.5	±0.5	±0.7	±0.14	4920 000.067	
	100 µL	±1.0	±1.0	±0.3	±0.3		
	200 µL	±0.6	±1.2	±0.2	±0.4		
30–300 µL ■ orange	30 µL	±2.5	±0.75	±0.7	±0.21	4920 000.075	
	150 µL	±1.0	±1.5	±0.3	±0.45		
	300 µL	±0.6	±1.8	±0.2	±0.6		
100–1000 µL ■ blue	100 µL	±3.0	±3.0	±0.6	±0.6	4920 000.083	
	500 µL	±1.0	±5.0	±0.2	±1.0		
	1000 µL	±0.6	±6.0	±0.2	±2.0		
0.25–2.5 mL ■ red	0.25 mL	±4.8	±0.012	±1.2	±0.003	4920 000.091	
	1.25 mL	±0.8	±0.010	±0.2	±0.0025		
	2.5 mL	±0.6	±0.015	±0.2	±0.005		
0.5–5 mL ■ purple	0.5 mL	±2.4	±0.012	±0.6	±0.003	4920 000.105	
	2.5 mL	±1.2	±0.030	±0.25	±0.006		
	5.0 mL	±0.6	±0.030	±0.15	±0.0075		
1–10 mL ■ turquoise	1.0 mL	±3.0	±0.030	±0.6	±0.006	4920 000.113	
	5.0 mL	±0.8	±0.040	±0.2	±0.010		
	10.0 mL	±0.6	±0.060	±0.15	±0.015		
Eppendorf Reference® 2, 8- and 12-channel variable						**8–channel**	**12–channel**
0.5–10 µL ■ medium gray	0.5 µL	±12.0	±0.06	±8.0	±0.04	4922 000.013	4922 000.021
	1 µL	±8.0	±0.08	±5.0	±0.05		
	5 µL	±4.0	±0.2	±2.0	±0.1		
	10 µL	±2.0	±0.2	±1.0	±0.1		
10–100 µL ■ yellow	10 µL	±3.0	±0.3	±2.0	±0.2	4922 000.030	4922 000.048
	50 µL	±1.0	±0.5	±0.8	±0.4		
	100 µL	±0.8	±0.8	±0.3	±0.3		
30–300 µL ■ orange	30 µL	±3.0	±0.9	±1.0	±0.3	4922 000.056	4922 000.064
	150 µL	±1.0	±1.5	±0.5	±0.75		
	300 µL	±0.6	±1.8	±0.3	±0.9		

*[1] All Eppendorf Reference 2 single-channel variable-volume pipettes come with an epT.I.P.S. Box (except 2.5 mL, 5 mL and 10 mL)
*[2] Data for systematic and random errors only applies when using Eppendorf epT.I.P.S.® pipette tips.

Eppendorf Reference® 2

Eppendorf Reference® 2, single–channel fixed

Volume	Color code	Systematic error*		Random error*		Order no.
		± %	± µL/mL	± %	± µL/mL	
1 µL	dark gray	±2.5	±0.025	±1.8	±0.018	4921 000.010
2 µL	dark gray	±2.0	±0.04	±1.2	±0.024	4921 000.028
5 µL	medium gray	±1.2	±0.06	±0.6	±0.03	4921 000.036
10 µL	medium gray	±1.0	±0.1	±0.5	±0.05	4921 000.044
10 µL	yellow	±1.2	±0.12	±0.6	±0.06	4921 000.052
20 µL	light gray	±0.8	±0.16	±0.3	±0.06	4921 000.060
20 µL	yellow	±1.0	±0.2	±0.3	±0.06	4921 000.079
25 µL	yellow	±1.0	±0.25	±0.3	±0.075	4921 000.087
50 µL	yellow	±0.7	±0.35	±0.3	±0.15	4921 000.095
100 µL	yellow	±0.6	±0.6	±0.2	±0.2	4921 000.109
200 µL	yellow	±0.6	±1.2	±0.2	±0.4	4921 000.117
200 µL	blue	±0.6	±1.2	±0.2	±0.4	4921 000.125
250 µL	blue	±0.6	±1.5	±0.2	±0.5	4921 000.133
500 µL	blue	±0.6	±3.0	±0.2	±1.0	4921 000.141
1000 µL	blue	±0.6	±6.0	±0.2	±2.0	4921 000.150
2 mL	red	±0.6	±0.012	±0.2	±0.004	4921 000.168
2.5 mL	red	±0.6	±0.015	±0.2	±0.005	4921 000.176

Technical specifications subject to change. Errors and omissions excepted.
* Data for systematic and random errors only applies when using Eppendorf epT.I.P.S.® pipette tips.

Accessories	Order no.
Eppendorf TrackIT	3903 000.014
Pipette carousel Eppendorf Reference® 2	4923 000.009
Pipette holder, exclusively for Reference® 2 for pipette carousel 4923000.009	3115 000.003
Wall mount, exclusively for Reference® 2	4923 000.017
Tip-Tub reagent reservoir, autoclavable reservoir for aspirating liquids with multi-channel pipettes, 1 set = 10 reservoirs and 10 lids	0030 058.607

Eppendorf Reference® 2, 3-Pack, incl. epT.I.P.S. Box and Eppendorf ballpen	Order no.
Option 1: 0,5–10 µL, 10–100 µL, 100–1,000 µL	4920 000.903
Option 2: 2–20 µL, 20–200 µL, 100–1,000 µL	4920 000.911
Option 3: 100–1,000 µL, 0.5–5 mL, 1–10 mL	4920 000.920

Eppendorf Research® plus

Eppendorf Research® plus (variable)*¹

Volume range	Dispensing button color	Volume*	Systematic error*²		Random error*²		Order no.
0.1–2.5 µL	■ dark gray (for epT.I.P.S.® 10 µL)	0.1 µL	±48.0%	±0.048 µL	±12.0%	±0.012 µL	3120 000.011
		0.25 µL	±12.0%	±0.03 µL	±6.0%	±0.015 µL	
		1.25 µL	±2.5%	±0.031 µL	±1.5%	±0.019 µL	
		2.5 µL	±1.4%	±0.035 µL	±0.7%	±0.018 µL	
0.5–10 µL	■ medium gray (for epT.I.P.S.® 20 µL)	0.5 µL	±8.0%	±0.04 µL	±5.0%	±0.025 µL	3120 000.020
		1 µL	±2.5%	±0.025 µL	±1.8%	±0.018 µL	
		5 µL	±1.5%	±0.075 µL	±0.8%	±0.04 µL	
		10 µL	±1.0%	±0.1 µL	±0.4%	±0.04 µL	
2–20 µL	■ light gray (for epT.I.P.S.® 20 µL L)	2 µL	±5.0%	±0.1 µL	±1.5%	±0.03 µL	3120 000.097
		10 µL	±1.2%	±0.12 µL	±0.6%	±0.06 µL	
		20 µL	±1.0%	±0.2 µL	±0.3%	±0.06 µL	
2–20 µL	■ yellow (for epT.I.P.S.® 200 µL)	2 µL	±5.0%	±0.1 µL	±1.5%	±0.03 µL	3120 000.038
		10 µL	±1.2%	±0.12 µL	±0.6%	±0.06 µL	
		20 µL	±1.0%	±0.2 µL	±0.3%	±0.06 µL	
10–100 µL		10 µL	±3.0%	±0.3 µL	±1.0%	±0.1 µL	3120 000.046
		50 µL	±1.0%	±0.5 µL	±0.3%	±0.15 µL	
		100 µL	±0.8%	±0.8 µL	±0.2%	±0.2 µL	
20–200 µL		20 µL	±2.5%	±0.5 µL	±0.7%	±0.14 µL	3120 000.054
		100 µL	±1.0%	±1.0 µL	±0.3%	±0.3 µL	
		200 µL	±0.6%	±1.2 µL	±0.2%	±0.4 µL	
30–300 µL	■ orange (for epT.I.P.S.® 300 µL)	30 µL	±2.5%	±0.75 µL	±0.7%	±0.21 µL	3120 000.100
		150 µL	±1.0%	±1.5 µL	±0.3%	±0.45 µL	
		300 µL	±0.6%	±1.8 µL	±0.2%	±0.6 µL	
100–1 000 µL	■ blue (for epT.I.P.S.® 1 000 µL)	100 µL	±3.0%	±3.0 µL	±0.6%	±0.6 µL	3120 000.062
		500 µL	±1.0%	±5.0 µL	±0.2%	±1.0 µL	
		1,000 µL	±0.6%	±6.0 µL	±0.2%	±2.0 µL	
0.5–5 mL	■ purple (for epT.I.P.S.® 5 mL)	0.5 mL	±2.4%	±0.012 mL	±0.6%	±0.003 mL	3120 000.070
		2.5 mL	±1.2%	±0.03 mL	±0.25%	±0.006 mL	
		5 mL	±0.6%	±0.03 mL	±0.15%	±0.008 mL	
1–10 mL	■ turquoise (for epT.I.P.S.® 10 mL)	1 mL	±3.0%	±0.03 mL	±0.6%	±0.006 mL	3120 000.089
		5 mL	±0.8%	±0.04 mL	±0.2%	±0.01 mL	
		10 mL	±0.6%	±0.06 mL	±0.15%	±0.015 mL	

*¹ All Eppendorf Research® plus single-channel variable-volume pipettes come with an epT.I.P.S.® Box (except 2.5 mL, 5 mL and 10 mL)
*² Data for systematic and random errors only applies when using Eppendorf epT.I.P.S.® pipette tips.

Eppendorf Research® plus

Eppendorf Research® plus (variable, multi-channel)

Volume range	Dispensing button color	Volume	Systematic error*		Random error*		Order no. 8-channel	Order no. 12-channel
0.5–10 µL	▪ medium gray (for epT.I.P.S.® 20 µL)	0.5 µL	±12.0%	±0.06 µL	±8.0%	±0.04 µL	3122 000.019	3122 000.027
		1 µL	±8.0%	±0.08 µL	±5.0%	±0.05 µL		
		5 µL	±4.0%	±0.2 µL	±2.0%	±0.1 µL		
		10 µL	±2.0%	±0.2 µL	±1.0%	±0.1 µL		
10–100 µL	▪ yellow (for epT.I.P.S.® 200 µL)	10 µL	±3.0%	±0.3 µL	±2.0%	±0.2 µL	3122 000.035	3122 000.043
		50 µL	±1.0%	±0.5 µL	±0.8%	±0.4 µL		
		100 µL	±0.8%	±0.8 µL	±0.3%	±0.3 µL		
30–300 µL	▪ orange (for epT.I.P.S.® 300 µL)	30 µL	±3.0%	±0.9 µL	±1.0%	±0.3 µL	3122 000.051	3122 000.060
		150 µL	±1.0%	±1.5 µL	±0.5%	±0.75 µL		
		300 µL	±0.6%	±1.8 µL	±0.3%	±0.9 µL		

Eppendorf Research® plus (fixed volume)

Volume	Dispensing button color	Systematic error*		Random error*		Order no.
10 µL	▪ medium gray (for epT.I.P.S.® 20 µL)	±1.2%	±0.12 µL	±0.6%	±0.06 µL	3121 000.015
20 µL	▪ light gray (for epT.I.P.S.® 20 µL L)	±0.8%	±0.16 µL	±0.3%	±0.06 µL	3121 000.031
10 µL	▪ yellow (for epT.I.P.S.® 200 µL)	±1.2%	±0.12 µL	±0.6%	±0.06 µL	3121 000.023
20 µL		±1.0%	±0.2 µL	±0.3%	±0.06 µL	3121 000.040
25 µL		±1.0%	±0.25 µL	±0.3%	±0.08 µL	3121 000.058
50 µL		±0.7%	±0.35 µL	±0.3%	±0.15 µL	3121 000.066
100 µL		±0.6%	±0.6 µL	±0.2%	±0.2 µL	3121 000.074
200 µL		±0.6%	±1.2 µL	±0.2%	±0.4 µL	3121 000.082
200 µL	▪ blue (for epT.I.P.S.® 1 000 µL)	±0.6%	±1.2 µL	±0.2%	±0.4 µL	3121 000.090
250 µL		±0.6%	±1.5 µL	±0.2%	±0.5 µL	3121 000.104
500 µL		±0.6%	±3.0 µL	±0.2%	±1.0 µL	3121 000.112
1 000 µL		±0.6%	±6.0 µL	±0.2%	±2.0 µL	3121 000.120

Technical specifications subject to change. Errors and omissions excepted.
*Data for systematic and random errors only applies when using Eppendorf epT.I.P.S.® pipette tips.

Accessories	Order no.
Tip-Tub reagent reservoir, autoclavable reservoir for aspirating liquids with multi-channel pipettes, 1 set = 10 reservoirs and 10 lids	0030 058.607
Pipette holder, for wall mounting	3115 000.020
Pipette carousel, for 6 pipettes, all but Reference® 2	3115 000.003
Pipette holder for Research® plus and other older pipettes for pipette carousel 4923 000.009	3115 600.019

Eppendorf Research® plus 3-pack including epT.I.P.S.® box and Eppendorf ballpen	Order no.
Option 1: 0,5–10 µL, 10–100 µL, 100–1,000 µL	3120 000.909
Option 2: 2–20 µL yellow, 20–200 µL, 100–1,000 µL	3120 000.917
Option 3: 100–1,000 µL, 0.5–5 mL, 1–10 mL	3120 000.925

Eppendorf Xplorer®

Eppendorf Xplorer®, single-channel (incl. charger)

Volume range	Dispensing button color	Volume	Systematic error*		Random error*		Order no.
0.5–10 µL	■ dark gray (for epT.I.P.S.® 20 µL)	1 µL	±2.5 %	±0.025 µL	±1.8 %	±0.018 µL	4861 000.015
		5 µL	±1.5 %	±0.075 µL	±0.8 %	±0.04 µL	
		10 µL	±1.0 %	±0.1 µL	±0.4 %	±0.04 µL	
5–100 µL	■ yellow (for epT.I.P.S.® 200 µL)	10 µL	±2.0 %	±0.2 µL	±1.0 %	±0.1 µL	4861 000.023
		50 µL	±1.0 %	±0.5 µL	±0.3 %	±0.15 µL	
		100 µL	±0.8 %	±0.8 µL	±0.2 %	±0.2 µL	
15–300 µL	■ orange (for epT.I.P.S.® 300 µL)	30 µL	±2.5 %	±0.75 µL	±0.7 %	±0.21 µL	4861 000.031
		150 µL	±1.0 %	±1.5 µL	±0.3 %	±0.45 µL	
		300 µL	±0.6 %	±1.8 µL	±0.2 %	±0.6 µL	
50–1000 µL	■ blue (for epT.I.P.S.® 1000 µL)	100 µL	±3.0 %	±3 µL	±0.6 %	±0.6 µL	4861 000.040
		500 µL	±1.0 %	±5 µL	±0.2 %	±1 µL	
		1000 µL	±0.6 %	±6 µL	±0.2 %	±2 µL	
0.25–5 mL	■ purple (for epT.I.P.S.® 5 mL)	500 µL	±3.0 %	±15 µL	±0.6 %	±3 µL	4861 000.058
		2500 µL	±1.2 %	±30 µL	±0.3 %	±6.25 µL	
		5000 µL	±0.6 %	±30 µL	±0.15 %	±7.5 µL	
0.5–10 mL	■ turquoise (for epT.I.P.S.® 10 mL)	1000 µL	±3.0 %	±30 µL	±0.6 %	±6 µL	4861 000.066
		5000 µL	±0.8 %	±40 µL	±0.2 %	±10 µL	
		10000 µL	±0.6 %	±60 µL	±0.15 %	±15 µL	

Eppendorf Xplorer®, multi-channel (incl. charger)

Volume range	Dispensing button color	Volume	Systematic error*		Random error*		Order no. 8-channel	Order no. 12-channel
0.5–10 µL	■ medium gray (for epT.I.P.S.® 20 µL)	1 µL	±5.0 %	±0.05 µL	±3.0 %	±0.03 µL	4861 000.104	4861 000.112
		5 µL	±3.0 %	±0.15 µL	±1.5 %	±0.075 µL		
		10 µL	±2.0 %	±0.2 µL	±0.8 %	±0.08 µL		
5–100 µL	■ yellow (for epT.I.P.S.® 200 µL)	10 µL	±2.0 %	±0.2 µL	±2.0 %	±0.2 µL	4861 000.120	4861 000.139
		50 µL	±1.0 %	±0.5 µL	±0.8 %	±0.4 µL		
		100 µL	±0.8 %	±0.8 µL	±0.25 %	±0.25 µL		
15–300 µL	■ orange (for epT.I.P.S.® 300 µL)	30 µL	±2.5 %	±0.75 µL	±1.0 %	±0.3 µL	4861 000.147	4861 000.155
		150 µL	±1.0 %	±1.5 µL	±0.5 %	±0.75 µL		
		300 µL	±0.6 %	±1.8 µL	±0.25 %	±0.75 µL		
50–1200 µL	■ medium green (for epT.I.P.S.® 1200 µL)	120 µL	±6.0 %	±7.2 µL	±0.9 %	±1.08 µL	4861 000.163	4861 000.171
		600 µL	±2.7 %	±16.2 µL	±0.4 %	±2.4 µL		
		1200 µL	±1.2 %	±14.4 µL	±0.3 %	±3.6 µL		

*Data for systematic and random deviations only applies when using Eppendorf epT.I.P.S.® pipette tips.
Technical specifications subject to change. Errors and omissions excepted.

Accessories	Order no.
Charging stand	
for 1 pipette	4880 000.000
for 4 pipettes (incl. charging adapter)	4880 000.026
Wall mount for Xplorer®	4861 615.001
Charger shell for all charging stands	4880 602.000

Eppendorf Xplorer® plus

Eppendorf Xplorer® plus, single-channel (incl. charger)

Volume range	Dispensing button color	Volume	Systematic error*		Random error*		Order no.
0.5–10 µL	◼ medium gray (for epT.I.P.S.® 20 µL)	1 µL	±2.5 %	±0.025 µL	±1.8 %	±0.018 µL	4861 000.708
		5 µL	±1.5 %	±0.075 µL	±0.8 %	±0.04 µL	
		10 µL	±1.0 %	±0.1 µL	±0.4 %	±0.04 µL	
5–100 µL	◼ yellow (for epT.I.P.S.® 200 µL)	10 µL	±2.0 %	±0.2 µL	±1.0 %	±0.1 µL	4861 000.716
		50 µL	±1.0 %	±0.5 µL	±0.3 %	±0.15 µL	
		100 µL	±0.8 %	±0.8 µL	±0.2 %	±0.2 µL	
15–300 µL	◼ orange (for epT.I.P.S.® 300 µL)	30 µL	±2.5 %	±0.75 µL	±0.7 %	±0.21 µL	4861 000.724
		150 µL	±1.0 %	±1.5 µL	±0.3 %	±0.45 µL	
		300 µL	±0.6 %	±1.8 µL	±0.2 %	±0.6 µL	
50–1 000 µL	◼ blue (for epT.I.P.S.® 1 000 µL)	100 µL	±3.0 %	±3 µL	±0.6 %	±0.6 µL	4861 000.732
		500 µL	±1.0 %	±5 µL	±0.2 %	±1 µL	
		1 000 µL	±0.6 %	±6 µL	±0.2 %	±2 µL	
0.25–5 mL	◼ purple (for epT.I.P.S.® 5 mL)	500 µL	±3.0 %	±15 µL	±0.6 %	±3 µL	4861 000.740
		2 500 µL	±1.2 %	±30 µL	±0.3 %	±6.25 µL	
		5 000 µL	±0.6 %	±30 µL	±0.15 %	±7.5 µL	
0.5–10 mL	◼ turquoise (for epT.I.P.S.® 10 mL)	1 000 µL	±3.0 %	±30 µL	±0.6 %	±6 µL	4861 000.759
		5 000 µL	±0.8 %	±40 µL	±0.2 %	±10 µL	
		10 000 µL	±0.6 %	±60 µL	±0.15 %	±15 µL	

Eppendorf Xplorer® plus, multi-channel (incl. charger)

Volume range	Dispensing button color	Volume	Systematic error*		Random error*		Order no. 8-channel	Order no. 12-channel
0.5–10 µL	◼ medium gray (for epT.I.P.S.® 20 µL)	1 µL	±5.0 %	±0.05 µL	±3.0 %	±0.03 µL	4861 000.767	4861 000.775
		5 µL	±3.0 %	±0.15 µL	±1.5 %	±0.075 µ		
		10 µL	±2.0 %	±0.2 µL	±0.8 %	±0.08 µL		
5–100 µL	◼ yellow (for epT.I.P.S.® 200 µL)	10 µL	±2.0 %	±0.2 µL	±2.0 %	±0.2 µL	4861 000.783	4861 000.791
		50 µL	±1.0 %	±0.5 µL	±0.8 %	±0.4 µL		
		100 µL	±0.8 %	±0.8 µL	±0.25 %	±0.25 µL		
15–300 µL	◼ orange (for epT.I.P.S.® 300 µL)	30 µL	±2.5 %	±0.75 µL	±1.0 %	±0.3 µL	4861 000.805	4861 000.813
		150 µL	±1.0 %	±1.5 µL	±0.5 %	±0.75 µL		
		300 µL	±0.6 %	±1.8 µL	±0.25 %	±0.75 µL		
50–1 200 µL	◼ medium green (for epT.I.P.S.® 1 200 µL)	120 µL	±6.0 %	±7.2 µL	±0.9 %	±1.08 µL	4861 000.821	4861 000.830
		600 µL	±2.7 %	±16.2 µL	±0.4 %	±2.4 µL		
		1 200 µL	±1.2 %	±14.4 µL	±0.3 %	±3.6 µL		

*Data for systematic and random deviations only applies when using Eppendorf epT.I.P.S.® pipette tips.
Technical specifications subject to change. Errors and omissions excepted.

Accessories	Order no.
Charging stand	
for 1 pipette	4880 000.000
for 4 pipettes (incl. charging adapter)	4880 000.026
Wall mount for Xplorer®	4861 615.001
Charger shell for all charging stands	4880 602.000

Eppendorf Multipette® M4

Description	Order number
Multipette® M4 incl. holder (for wall and/or pipette carousel)	4982 000.012
Multipette® M4 Starter Kit, Multipette® M4, Combitip Rack, Combitip assortment pack	4982 000.314
Holder, for Multipette® M4, for wall mount and/or pipette carousel	4982 602.004
Eppendorf TrackIT consists of software and RFID reader	3903 000.014

Eppendorf Multipette stream®/ Eppendorf Multipette Xstream®

Description	Order no.
Multipette stream®, includes charging adapter, 100–240 V/50–60 Hz	4986 000.017
Multipette Xstream®, includes charging adapter, 100–240 V/50–60 Hz	4986 000.025
Charging stand, for Multipette stream®/Xstream®, holds one unit	4880 000.018
Charger shell for Multipette stream®/Xstream®, for charger carousel 4880 000.026	4880 601.003
Holder for Multipette stream®/Xstream® (for wall mount)	4986 604.001

Eppendorf Combitips advanced® and Accessories

Combitips advanced®	Color coding	Eppendorf Quality box of 100 pcs. (4 bags x 25 pcs.)	PCR clean*[1] box of 100 pcs., 4 bags (zip-lock) x 25 pcs.	Eppendorf Biopur®*[2] **box of** 100 pcs. (individually wrapped)
0.1 mL	☐ White	0030 089.405	0030 089.766	0030 089.618
0.2 mL	▨ Light blue	0030 089.413	0030 089.774	0030 089.626
0.5 mL	▨ Purple	0030 089.421	0030 089.782	0030 089.634
1 mL	▨ Yellow	0030 089.430	0030 089.790	0030 089.642
2.5 mL	▨ Green	0030 089.448	0030 089.804	0030 089.650
5 mL	▨ Blue	0030 089.456	0030 089.812	0030 089.669
10 mL	▨ Orange	0030 089.464	0030 089.820	0030 089.677
25 mL*[3]	▨ Red	0030 089.472	0030 089.839	0030 089.685
50 mL*[3]	▨ Light gray	0030 089.480	0030 089.847	0030 089.693
Accessories				
25 mL adapter (1 pc.)	▨ Red	0030 089.715		
25 mL adapter (7 pcs.)	▨ Red			0030 089.731
50 mL adapter (1 pc.)	▨ Light gray	0030 089.723		
50 mL adapter (7 pcs.)	▨ Light gray			0030 089.740
Combitip Rack (for 8 Combitips advanced®, 0.1 mL–10 mL)		0030 089.758		
Combitips advanced® Assortment pack (1 Combitip of each size, incl. adapters)		0030 089.936		

*[1] PCR clean: batch-tested and certified to be free of: human DNA, DNase, RNase, PCR inhibitors
*[2] Eppendorf Biopur: batch-tested and certified to be sterile and free of: human and bacterial DNA, DNase, RNase, PCR inhibitors, ATP, Pyogen
*[3] 4 boxes of 25 pcs. each. Each box contains an adapter.

Eppendorf Biomaster®

Description	Order no.
Biomaster® pipette kit, includes 1 Biomaster 4830 pipette with 1–20 µL continuous volume selection and 1 box of 96 Mastertips	4830 000.017
Mastertip®, includes ready-for-use piston, 5 racks of 96 tips	0030 001.320

Eppendorf Varipette®

Description	Order no.
Varipette®, with continuous volume adjustment in the range from 1–10 mL	4720 000.011
Adapter, for storing Eppendorf Varipette® 4720 in carousel pipette stand 3115	4981 201.006
Starter Kit, (100 Maxitips, 10 dispensing parts, 10 valves, 2 Maxitips G)	0030 050.525
Eppendorf Varitips® P, for aspirating from smaller vessels, set of 100	0030 048.130
Barrels with pistons, for Eppendorf Varitip S, set of 30	0030 050.533
Maxitip, for Eppendorf Varitip® S, set of 200	0030 050.568
Valves, for Eppendorf Varitip® S, set of 100	0030 050.541

Eppendorf Varispenser® plus

Size (mm)	Volume range	With 3 adapters for outer diameters (mm)	Order no. Eppendorf Varispenser® plus	Order no. Eppendorf Varispenser®
1	0.50–2.50 mL	28, 40, 45	4961 000.012	4960 000.019
2	1.00–5.00 mL	28, 40, 45	4961 000.020	4960 000.027
3	2.00–10.0 mL	28, 40, 45	4961 000.039	4960 000.035
4	5.00–25.0 mL	32, 38, 40	4961 000.047	4960 000.043
5	10.0–50.0 mL	32, 38, 40	4961 000.055	4960 000.051
6	20.0–100.0 mL	32, 38, 40	4961 000.063	4960 000.060
Discharge tube, spiral				
80 cm for Varispenser®/Varispenser® plus, up to 10 mL				4960 824.003
80 cm for Varispenser®/Varispenser® plus, for 25–100 mL				4960 825.000

Eppendorf Top Buret™

Model	Volume	With three adapters for outer diameter (mm)	Order no.
Top Buret M	2.5 mL per rotation	32, 38, 40	4965 000.017
Top Buret H	5.0 mL per rotation	32, 38, 40	4965 000.025
Dry tube			4960 851.000

Eppendorf Easypet®

Description	Order no.
Eppendorf Easypet®, with transformer, wall holder and two membrane filters/0.45 µm	4421 000.013
Membrane filter, 0.45 µm for Eppendorf Easypet® 4421 000.013 sterile, PTFE, set of 5	4421 601.009
NiMH batteries KR 15/30 (set of 3)	4420 810.003
Wall-mountable holder	4420 815.005

Eppendorf Pipet Helper®

Description	Order no.
Eppendorf Pipet Helper®, 0.1–100 mL	4423 000.010
Membrane filter, for Eppendorf Pipet Helper®, 3 µm, not sterile	4423 601.014

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