



PhysioCare  
concept



# Eppendorf Reference<sup>®</sup> : The pipette.

Reference class since 1994

**eppendorf**

# Eppendorf Reference®

Reference class since 1994

The world of research and science is developing in shorter and shorter cycles. That's all for the better, because true constants are now available! Values you can always depend on. Of course, the Eppendorf Reference is one of them.

As one of the most popular pipettes, it has been a constant companion for students, assistants, scientists and researchers since 1994.

Eppendorf Reference's great success is based on its unique design and technology concept: the utmost precision and accuracy combined with low failure rate and high longevity. The ergonomic features also play a big role, making work more comfortable and safe for every user.

Positive feedback from countless users has confirmed: The Eppendorf Reference remains the reference class for modern liquid handling tools.

Even online: [www.eppendorf.com/reference](http://www.eppendorf.com/reference)



"I remember my first few weeks in the lab like they were yesterday – my very patient colleagues and my first pipette: the Eppendorf Reference."



# A true companion

## Dependability and safety

People who work in regulated areas or areas with high security requirements need an instrument with accordingly high reproducibility and dependability.

With its control button and ejector combination, the Eppendorf Reference is designed to actively reduce contamination from aerosols. The one-button operation prevents gloves from becoming jammed in the device.

The volume is set using the control button and always remains visible on the display – no matter where the hand is positioned. A locking mechanism ensures that the settings cannot be changed accidentally.

Of course, the Eppendorf Reference is fully autoclavable and the adjustment status is clearly indicated by the various calibration seals, thereby fulfilling all current laboratory guidelines.



“I never really understood what dependability meant until I had to replace my Reference with another pipette.”





# Listen to your hands

## Ergonomics and intuitive operation

One of the most important reasons that many people choose to work with the Eppendorf Reference year after year is hard to explain – but easily felt:

Everyone who picks up the Eppendorf Reference notices right away: it has a great feel to it! It only has one control button and the volume can be easily read, regardless of the position of the hand. Everything works in a snap – even changing the tips.

The Reference not only meets the highest criteria of the Eppendorf PhysioCare Concept, it has been certified by the renowned TÜV Rheinland for its outstanding user friendliness!



- User-friendly
- User-tested

“Changing hundreds of tips a day and keeping a smile on your face? No problem, thanks to the Eppendorf Reference!”

# Dependability with a system

## Pipette tips and service

Do you depend on your precious samples? Then don't leave any valuable residues in your tips when you pipette solutions with detergents!

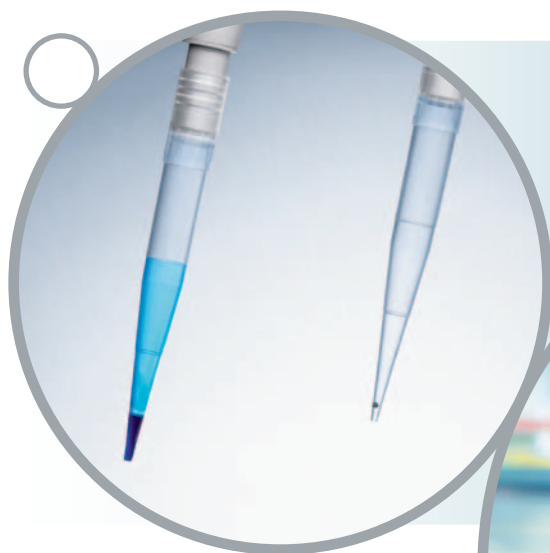
Thanks to unique, innovative material handling, epT.I.P.S. LoRetention pipette tips re-dispense almost 100 % of the collected liquid ("pearl effect"), guaranteeing dependable, maximum reproducibility in your system with our Eppendorf Reference Pipette.

[www.eppendorf.com/consumables](http://www.eppendorf.com/consumables)

The quality of your work results is significantly affected by the precision and accuracy of your pipette!

epServices guarantees precisely that. The scope of services includes calibration, adjustment, certification, service and repair. It also includes low-cost BASIC calibration or GLP/GMP customer-specific calibration services.

[www.eppendorf.com/epservices](http://www.eppendorf.com/epservices)



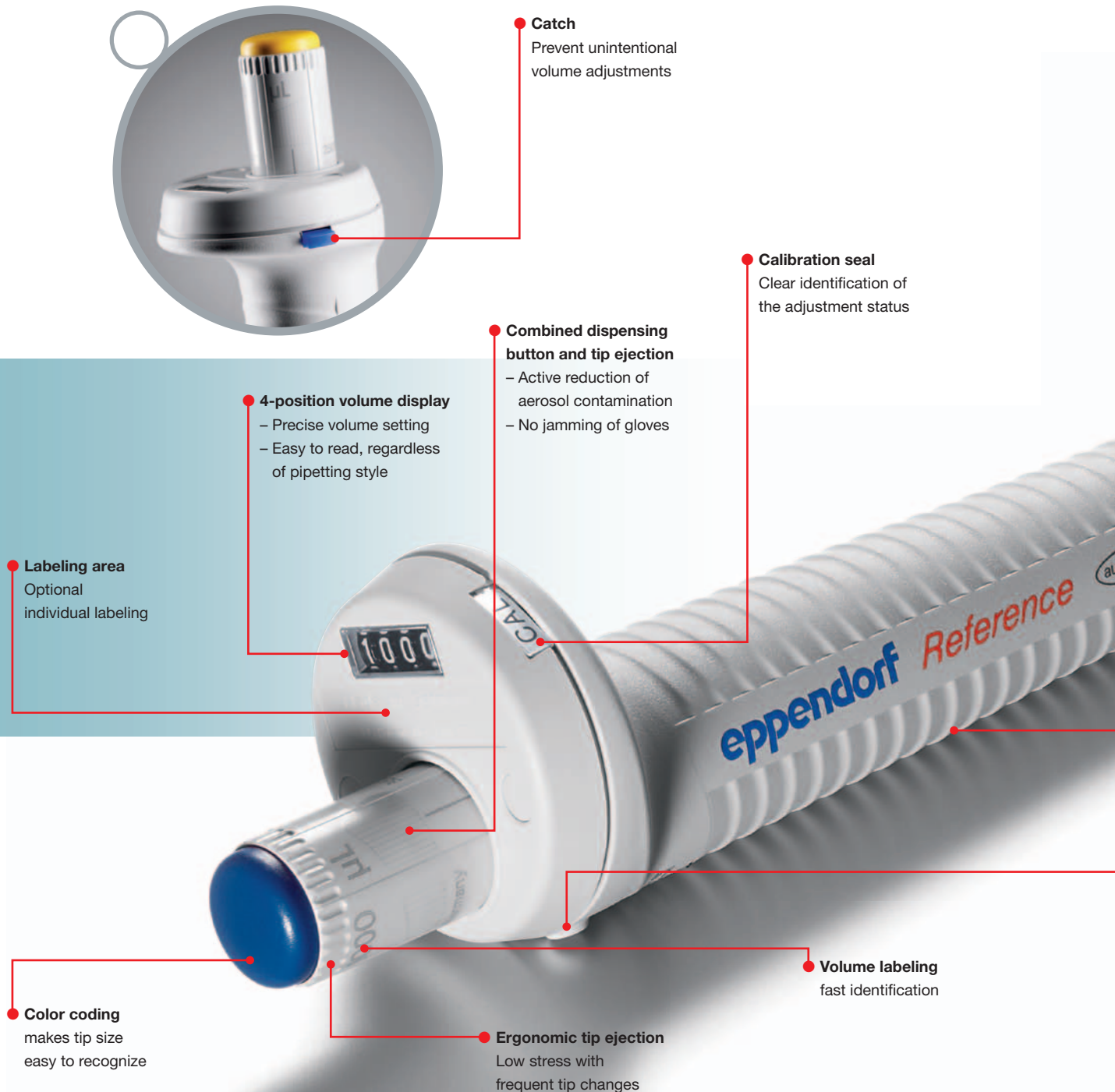
"The Reference, epT.I.P.S and epServices system has become an essential part of my success story!"



**epServices**  
for premium performance

# Reference class down to the last detail

## An overview of the Eppendorf Reference





● **TÜV-tested user friendliness**

Simple and ergonomic handling

● **Perfect combination with epT.I.P.S.**

High reliability of results

● **Made in Germany**

High quality standards

● **Fully autoclavable**

Fast and secure disinfection

● **Unique handle**

All individual hand positions possible

● **Stopper**

No accidental rolling away



# Eppendorf Reference®

## Eppendorf Reference® (variable)

Volume range	Volume	Systematic deviation	Random deviation	Order no.
Anthracite dispensing button for epT.I.P.S.® 10 µL pipette tips				
0.1–2.5 µL	0.25 µL	±12.0 %	≤6.0 %	4910 000.085
	1.25 µL	±2.5 %	≤1.5 %	
	2.5 µL	±1.4 %	≤0.7 %	
Gray dispensing button for epT.I.P.S.® 20 µL pipette tips				
0.5–10 µL	1 µL	±2.5 %	≤1.8 %	4910 000.018
	5 µL	±1.5 %	≤0.8 %	
	10 µL	±1.0 %	≤0.4 %	
2–20 µL	2 µL	±3.0 %	≤2.0 %	4910 000.026
	10 µL	±1.0 %	≤0.5 %	
	20 µL	±0.8 %	≤0.3 %	
Yellow dispensing button for epT.I.P.S.® 200 µL and 300 µL pipette tips				
2–20 µL	2 µL	±5.0 %	≤1.5 %	4910 000.034
	10 µL	±1.2 %	≤0.6 %	
	20 µL	±1.0 %	≤0.3 %	
10–100 µL	10 µL	±3.0 %	≤0.7 %	4910 000.042
	50 µL	±1.0 %	≤0.3 %	
	100 µL	±0.8 %	≤0.15 %	
50–200 µL	50 µL	±1.0 %	≤0.3 %	4910 000.093
	100 µL	±0.9 %	≤0.3 %	
	200 µL	±0.6 %	≤0.2 %	
Blue dispensing button for epT.I.P.S.® 1,000 µL pipette tips				
100–1,000 µL	100 µL	±3.0 %	≤0.3 %	4910 000.069
	500 µL	±1.0 %	≤0.2 %	
	1,000 µL	±0.6 %	≤0.2 %	
Red dispensing button for epT.I.P.S.® 2,500 µL pipette tips				
500–2,500 µL	500 µL	±1.5 %	≤0.3 %	4910 000.077
	1,000 µL	±0.8 %	≤0.2 %	
	2,500 µL	±0.6 %	≤0.2 %	

The data for systematic and random deviations only applies when using Eppendorf epT.I.P.S. pipette tips.

## Eppendorf Reference® (fixed volume)

Volume	Systematic deviation	Random deviation	Order no.
<b>Gray dispensing button for epT.I.P.S.® 20 µL pipette tips</b>			
1 µL	±2.5 %	≤1.8 %	4900 000.010
2 µL	±2.0 %	≤1.2 %	4900 000.028
5 µL	±1.5 %	≤0.8 %	4900 000.036
10 µL	±1.0 %	≤0.5 %	4900 000.044
<b>Yellow dispensing button for epT.I.P.S.® 200 µL pipette tips</b>			
10 µL	±1.0 %	≤0.5 %	4900 000.109
20 µL	±0.8 %	≤0.3 %	4900 000.117
25 µL	±0.8 %	≤0.3 %	4900 000.150
50 µL	±0.7 %	≤0.3 %	4900 000.125
100 µL	±0.6 %	≤0.2 %	4900 000.133

## Eppendorf Reference® (fixed volume)

Volume	Systematic deviation	Random deviation	Order no.
<b>Blue dispensing button for epT.I.P.S.® 1,000 µL pipette tips</b>			
200 µL	±0.6 %	≤0.2 %	4900 000.508
250 µL	±0.6 %	≤0.2 %	4900 000.540
500 µL	±0.6 %	≤0.2 %	4900 000.516
1,000 µL	±0.6 %	≤0.2 %	4900 000.524
<b>Red dispensing button for epT.I.P.S.® 2,500 µL pipette tips</b>			
1,500 µL	±0.6 %	≤0.2 %	4900 000.923
2,000 µL	±0.6 %	≤0.2 %	4900 000.907
2,500 µL	±0.6 %	≤0.2 %	4900 000.915

**eppendorf**  
In touch with life

Your local distributor: [www.eppendorf.com/worldwide](http://www.eppendorf.com/worldwide)

Eppendorf AG · 22331 Hamburg · Germany · Tel: +49 40 53801-0 · Fax: +49 40 538 01-556 · E-mail: [eppendorf@eppendorf.com](mailto:eppendorf@eppendorf.com)

Eppendorf North America, Inc. · 102 Motor Parkway · Hauppauge, N.Y. 11788-5178 · USA

Tel: +1 516 334 7500 · Toll free phone: +1 800-645-3050 · Fax: +1 516 334 7506 · E-mail: [info@eppendorf.com](mailto:info@eppendorf.com)

**Application Support** Europe: Tel: +49 1803 666 789 (9 ct/min aus dem dt. Festnetz; Mobilfunkhöchstpreis 42 ct/min) · [support@eppendorf.com](mailto:support@eppendorf.com)

North America: Tel: +1 800 645 3050 · E-mail: [techserv@eppendorf.com](mailto:techserv@eppendorf.com)

Asia Pacific: Tel: +60 3 8023 6869 · E-mail: [support\\_asiapacific@eppendorf.com](mailto:support_asiapacific@eppendorf.com)