



PhysioCare  
Concept™  
improved

The feeling of a new philosophy

**eppendorf**

# Intuitive operation

## Eppendorf Reference (fix), Reference (adjustable-volume)

### What's new?

- TÜV approved user-friendliness
- Optimized pipetting force
- Now delivered as System Pack (Reference and epTIPS Box inclusive)
- IvD conformity
- Calibration-seal for optimal GLP requirements



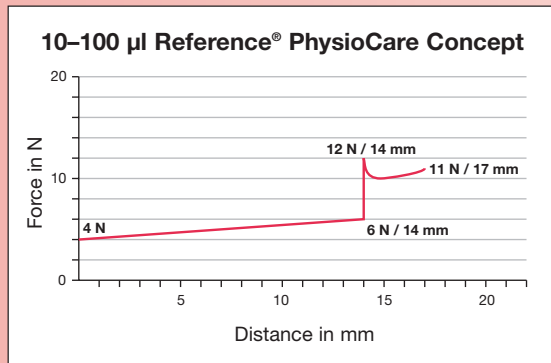
### User-tested and user-friendliness approved.

Not only the PhysioCare Concept™ criteria are fulfilled. Also the well known independent TÜV organization approved the outstanding user-friendliness of the new PhysioCare Concept™ Reference pipette. Only with this certificate, a pipette is approved as user-tested and user-friendly.

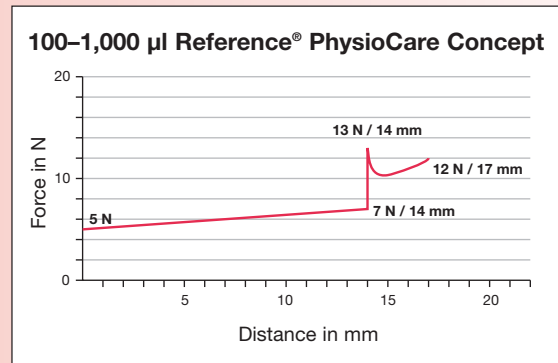


- User-friendly
- User-tested

# Minimal user exertion – perfectly balanced



Optimized operating forces are important for the daily work routine in the lab. The low weight of the Eppendorf Reference® of 89 g resp. 99 g and our



patented magnetic force reduction enable us to satisfy this maxim.



Only with perfectly produced pipette tips can the precision of modern pipettes be ideally exploited. This is possible with original Eppendorf tips.

# Integrated systems

The pipette models cover the range from 0.1 µl to 2,500 µl. In combination with Original Eppendorf epTIPS, the Eppendorf Reference is unbeatable as far as accuracy and precision are concerned. Tips can be easily attached both from trays or by hand, and fit reliably and securely.

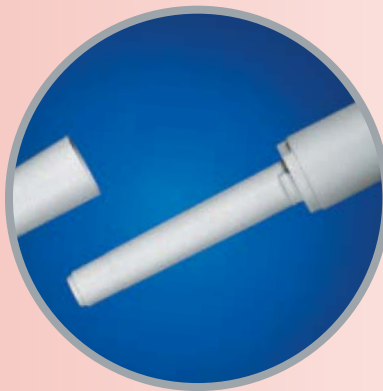


- Only this logo stands for Original Eppendorf tip quality



- Now as system pack

Its compact design eases work at the sterile bench. If narrow tubes are used, its tip ejector can be removed. The piston is corrosion-free and resistant against chemicals. The Push-button operation is extremely gentle and smooth, which not only ensures uniform filling and emptying, but is really essential for pipetting critical samples.



- Ejector sleeve can be removed as required, thereby ensuring compatibility even with narrow tubes



# Simple maintenance – exceptional durability



- With the Eppendorf Reference, you have your personal safety well under control. First of all, because the pipette lies comfortably in your hand thanks to its ribbed barrel. And secondly, because it is easy to clean. This is all possible because of a newly developed material which not only ensures a secure grip – but also makes the pipette so robust.

- Furthermore, it is UV-resistant and can be autoclaved completely\* in daily routine – without any impairment of accuracy or precision, of course.

\* (150 times 121°C, 20 min)



- We give you the key to user-maintenance. With the universal wrench provided with the pipette, you can carry out small service tasks yourself.



- Suitable for all pipette models, the rotatable pipette carousel keeps your lab bench tidy.



# Optimized form and function



- The lateral catch of the variable models ensures that the setting is locked in place and prevents accidental resetting during use. By the way, the volume can be adjusted with just one hand. The CE symbol shows, that the Reference fulfills the requirements of IVD (In Vitro Diagnostic).



- The decisive button for all Eppendorf Reference pipettes controls measuring stroke, blow-out and tip ejection. It is easy and smooth to operate and permits gentle, uniform filling and emptying. The 1 button operation is very well appreciated.



- It can be readjusted when tested according GLP and calibrated for liquids with a different density than water. According to EN ISO 8655 the readjustment for more safety and transparency is sealed.



- Individual identification possible

## Reference (adjustable-volume)

### Ordering information

Article	Order no.
<b>Anthracite control button for 10 µl pipette tips</b>	
0.1–2.5 µl	EP1301
<b>Gray control button for 20 µl pipette tips</b>	
0.5–10 µl	EP1302
2–20 µl	EP1303
<b>Yellow control button for 200 µl and 300 µl pipette tips</b>	
2–20 µl	EP1304
10–100 µl	EP1305
50–200 µl	EP1306
<b>Blue control button for 1,000 µl pipette tips</b>	
100–1,000 µl	EP1307
<b>Red control button for 2.5 ml pipette tips</b>	
500–2,500 µl	EP1308

### Technical specifications\*

Volume	Inaccuracy	Imprecision
<b>0.1–2.5 µl, anthracite</b>		
0.25 µl	± 12.0%	≤ 6.0%
1.25 µl	± 2.5%	≤ 1.5%
2.5 µl	± 1.4%	≤ 0.7%
<b>0.5–10 µl, gray</b>		
0.5 µl	± 5.0%	≤ 2.8%
1 µl	± 2.5%	≤ 1.8%
5 µl	± 1.5%	≤ 0.8%
10 µl	± 1.0%	≤ 0.4%
<b>2–20 µl, gray</b>		
2 µl	± 3.0%	≤ 2.0%
10 µl	± 1.0%	≤ 0.5%
20 µl	± 0.8%	≤ 0.3%
<b>2–20 µl, yellow</b>		
2 µl	± 5.0%	≤ 1.5%
10 µl	± 1.2%	≤ 0.6%
20 µl	± 1.0%	≤ 0.3%
<b>10–100 µl, yellow</b>		
10 µl	± 3.0%	≤ 0.7%
50 µl	± 1.0%	≤ 0.3%
100 µl	± 0.8%	≤ 0.15%
<b>50–200 µl, yellow</b>		
50 µl	± 1.0%	≤ 0.3%
100 µl	± 0.9%	≤ 0.3%
200 µl	± 0.6%	≤ 0.2%
<b>100–1,000 µl, blue</b>		
100 µl	± 3.0%	≤ 0.3%
500 µl	± 1.0%	≤ 0.2%
1,000 µl	± 0.6%	≤ 0.2%
<b>500–2,500 µl, red</b>		
500 µl	± 1.5%	≤ 0.3%
1,000 µl	± 0.8%	≤ 0.2%
2,500 µl	± 0.6%	≤ 0.2%

## Reference (fixed-volume)

### Ordering information

Article	Order no.
<b>Gray control button for 20 µl pipette tips or GELoader® Tip</b>	
1 µl	EP1309
2 µl	EP1310
5 µl	EP1311
10 µl	EP1312
<b>Yellow control button for 200 µl pipette tips</b>	
10 µl	EP1313
20 µl	EP1314
25 µl	EP1315
50 µl	EP1316
100 µl	EP1317
<b>Blue control button for 1,000 µl pipette tips</b>	
200 µl	EP1318
250 µl	EP1319
500 µl	EP1320
1,000 µl	EP1321
<b>Red control button for 2.5 ml pipette tips</b>	
1,500 µl	EP1322
2,000 µl	EP1323
2,500 µl	EP1324

### Technical specifications\*

Volume	Inaccuracy	Imprecision
1 µl	± 2.5%	≤ 1.8%
2 µl	± 2.0%	≤ 1.2%
5 µl	± 1.5%	≤ 0.8%
10 µl	± 1.0%	≤ 0.5%
20 µl / 25 µl	± 0.8%	≤ 0.3%
50 µl	± 0.7%	≤ 0.3%
100 µl–2,500 µl	± 0.6%	≤ 0.2%

### Accessories

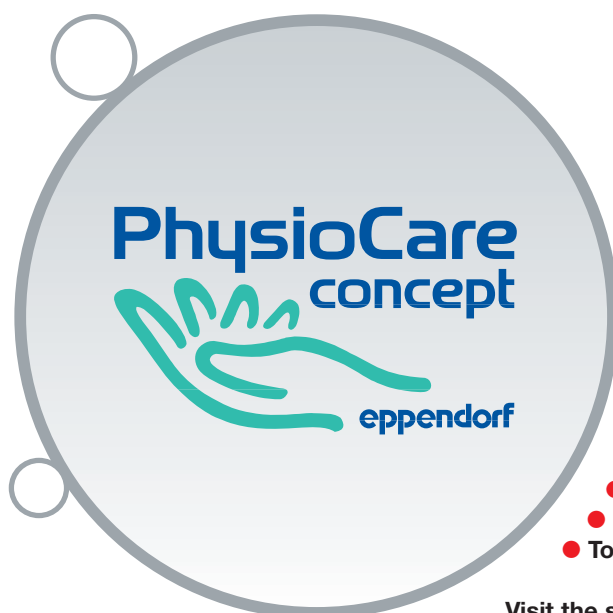
Article	Order no.
<b>Pipette Carousel,</b> holds 6 pipettes	3115 000.003
<b>Pipette holder,</b> for wall mounting	3115 000.020

### Info:

Each variable Reference contains, in addition to a service kit, an epTIPS Box with the appropriate tips. Only the optimal coordination of pipette and pipette tip enables the highest degree of precision and accuracy in every volume range.

\* Liquid: Bidistilled water  
 Temperature: 20–25 °C, constant to ±0.5 °C  
 No. of measurements: 10, in accordance with EN ISO 8655  
 using Original Eppendorf Pipette Tips

# Change the face of pipetting in your lab, today:



Eppendorf's  
8 PhysioCare Concept™ criteria:

- Integrated systems
- Exceptional durability
- Optimized form and function
- Perfectly balanced
- Intuitive operation
- Minimal user exertion
- Simple maintenance
- Total support

Visit the special Eppendorf  
PhysioCare Concept™ website  
[www.physiocare-concept.info](http://www.physiocare-concept.info)

- to check out on-line how good your pipette really is!
- to read more about the PhysioCare Concept™!
- to get valuable tips and tricks on pipetting!



[www.LabPro.co.uk](http://www.LabPro.co.uk)

telephone : 01865 307240  
email : [sales@labpro.co.uk](mailto:sales@labpro.co.uk)

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