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# The New Legend

Eppendorf Reference® 2 Pipette



# »The new Reference class for modern liquid handling tools.«

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.



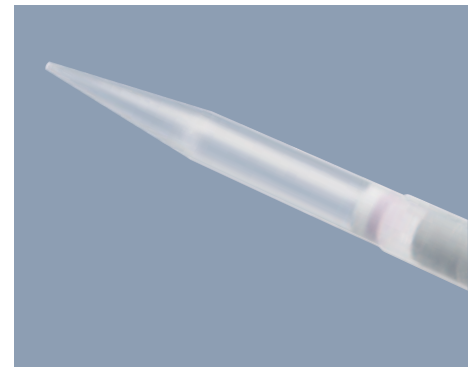
## Eppendorf TrackIT **NEW**

- > Including RFID Reader and Software
- > Embedded RFID chip contains all relevant data regarding the pipette (serial no., article no. etc.)
- > Ability to add your own data (e.g. calibration time and location)
- > Simple identification and documentation
- > For more information: [www.eppendorf.com/trackit](http://www.eppendorf.com/trackit)



## Multi-channel version **NEW**

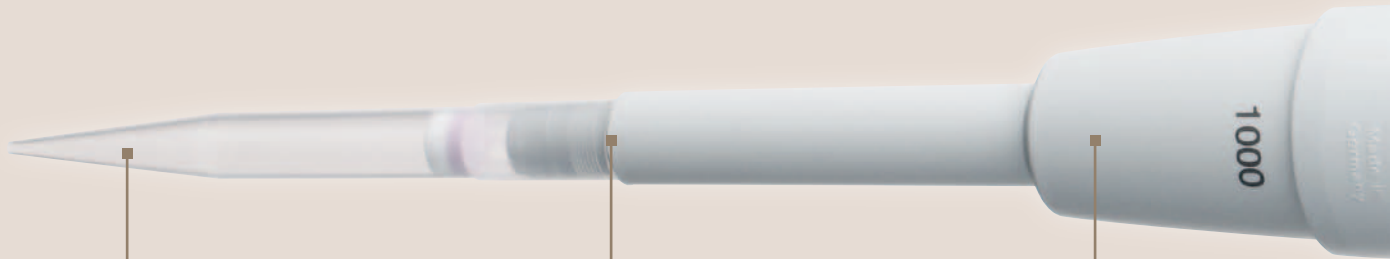
- > Channel indicator guarantees a continuously identical pipette alignment during the work process
- > Spring-loaded tip cone for reproducible tip fit and reduced effort (to be switched on/off optionally)
- > High flexibility and simple maintenance with the ability to remove single cones



## Systematic success

- > epT.I.P.S.<sup>®</sup>: High-grade pipette tips for increased result quality ([www.eppendorf.com/consumables](http://www.eppendorf.com/consumables))
- > epServices: Professional service for reliable results and long service life ([www.eppendorf.com/epServices](http://www.eppendorf.com/epServices))

# The Eppendorf Reference<sup>®</sup> 2 at a Glance



**A pipette is only as good as its tip**

- > Eppendorf epT.I.P.S.<sup>®</sup> pipette tips, Totally Integrated Pipetting System
- > Maximum Precision and Reliability

**Spring-loaded tip cone**

- > Improved reproducibility
- > Low effort during operation/ejection

**Heightened Traceability**

- > Serial number is printed on multiple components of the pipette
- > Internal RFID technology



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

**Sturdy Upper Handle**

- > Guarantees long service life and increased robustness

**Unique surface**

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

**Single-button operation**

- > Ergonomic handling with reduced operating effort.
- > Simple and quick tip ejection with active aerosol reduction
- > Reduce repetitive strain injuries by not having to move your thumb sideways
- > Haptic feedback before tip ejection

**Additional advantages:**

- > High precision and accuracy provides reliable pipetting results
- > User friendly secondary adjustment
- > Customizable labeling area

## Ordering information

Description	Volume	Systematic error		Random error		Order no. (International)	
		± %	± µL/mL	± %	± µL/mL		
<b>Eppendorf Reference® 2, single-channel variable*</b>							
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		
<b>Eppendorf Reference® 2, 8- and 12-channel variable</b>							
0.5–10 µL ■ medium gray	0.5 µL	±12.0	±0.06	±8.0	±0.04	<b>8-channel</b>	<b>12-channel</b>
	1 µL	±8.0	±0.08	±5.0	±0.05	4922 000.013	4922 000.021
	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		

\* All Eppendorf Reference 2 single-channel adjustable-volume pipettes come with an epT.I.P.S. Box (except 2.5 mL, 5 mL and 10 mL)  
Technical specifications subject to change. Errors and omissions excepted.

## Ordering information

Description	Color code	Systematic error		Random error		Order no. (International)
		± %	± µL/mL	± %	± µL/mL	
<b>Eppendorf Reference® 2, single-channel fixed</b>						
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
<b>Accessories</b>						
Eppendorf TrackIT						3903 000.014
Pipette carousel Eppendorf Reference 2						4923 000.009

Technical specifications subject to change. Errors and omissions excepted.

**000 «Диаэм»**

Москва  
ул. Магаданская, д. 7, к. 3 ■ тел./факс: (495) 745-0508 ■ [sales@dia-m.ru](mailto:sales@dia-m.ru)

[www.dia-m.ru](http://www.dia-m.ru)

**С.-Петербург**  
+7 (812) 372-6040  
[spb@dia-m.ru](mailto:spb@dia-m.ru)

**Новосибирск**  
+7(383) 328-0048  
[nsk@dia-m.ru](mailto:nsk@dia-m.ru)

**Воронеж**  
+7 (473) 232-4412  
[vrn@dia-m.ru](mailto:vrn@dia-m.ru)

**Йошкар-Ола**  
+7 (927) 880-3676  
[nba@dia-m.ru](mailto:nba@dia-m.ru)

**Красноярск**  
+7(923) 303-0152  
[krsk@dia-m.ru](mailto:krsk@dia-m.ru)

**Казань**  
+7(843) 210-2080  
[kazan@dia-m.ru](mailto:kazan@dia-m.ru)

**Ростов-на-Дону**  
+7 (863) 303-5500  
[rnd@dia-m.ru](mailto:rnd@dia-m.ru)

**Екатеринбург**  
+7 (912) 658-7606  
[ekb@dia-m.ru](mailto:ekb@dia-m.ru)

**Кемерово**  
+7 (923) 158-6753  
[kemerovo@dia-m.ru](mailto:kemerovo@dia-m.ru)

**Армения**  
+7 (094) 01-0173  
[armenia@dia-m.ru](mailto:armenia@dia-m.ru)

