



# The 360° Evolution

Eppendorf Combitips advanced®

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## Time for a New Original!

The invention of the Repeater and the Eppendorf Combitips marks a milestone in the field of Liquid Handling! Executing long pipetting and dispensing series is remarkably simpler and faster. With innovative sensor technology for automatic Combitip recognition, the Combitips plus/Repeater system has become an indispensable tool for every laboratory.

The increasingly high demands of modern laboratory work have also heightened the requirements for a high-precision dispensing tip. Our experts have thoroughly optimized the Combitips using sophisticated engineering. The result: a revolutionary 360° evolution! A completely new standard in dispensing tips.

## The »Combitips« principle

- > Positive displacement principle (comparable to a syringe)
- > High-precision dispensing regardless of the density and viscosity of the liquid
- > Prevents aerosol contamination with sealed piston for secure dispensing and provides protection from radioactive and toxic substances
- > Quick dispensing of long series with precise, repeated dispensing of identical volumes (together with the Repeater)

## Also online:

[www.eppendorf.com/combitips-advanced](http://www.eppendorf.com/combitips-advanced)

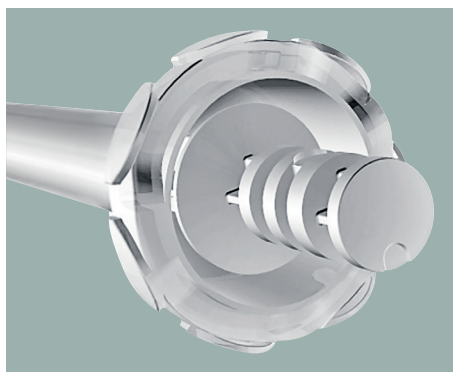


## Unmistakable Down to the Last Detail



### Intelligent packaging

with the redesigned dispenser box (for »Eppendorf Quality«) with extricable chute, Combitips advanced are always within reach. Portioning in 4 bags (25 pcs. each) ensures dust-free storage.



### Unmistakably Eppendorf

The new Eppendorf Combitips advanced also feature the characteristic Eppendorf 3D design on the upper rim of the Combitip, allowing you to easily and confidently recognize the Eppendorf Original!



### Variety and selection

With 9 volume sizes (0.1 mL to 50 mL) and 3 purity grades (Eppendorf Quality, Sterile and Eppendorf Biopur) you will always find the perfect Combitip for your application! The »Biopur« tips are individually blister-wrapped and feature an access tab which makes them easier to open, even with gloves!



### A perfect team

Whether Repeater 4780, Repeater plus, Repeater M4, Repeater stream, Repeater Xstream, Repeater E3 or Repeater E3x, the Combitips advanced are optimized for all Repeater models to create the perfect connection!



### Always easy to reach

The new Combitip Rack features trouble-free and single-hand operation during dispensing work. The rack holds up to 8 Combitips advanced in sizes ranging from 0.1 mL to 10 mL. The transparent tray allows for the sizes of the Combitips to be easily identified using the color coding.

**Additional information on Eppendorf Repeater can be found online:**  
**[www.eppendorf.com/repeater-system](http://www.eppendorf.com/repeater-system)**

Technical specifications						
Combitips advanced	Min./max. volume	Increment/step size	Max. dispensing volume	Volume	Inaccuracy* <sup>1</sup>	Imprecision* <sup>1</sup>
for Repeater plus and Combitips advanced system						
0.1 mL	1 µL 20 µL	1 µL	20 µL	2 µL 20 µL	±1.6% ±1.0%	±3.0% ±2.0%
0.2 mL	2 µL 40 µL	2 µL	40 µL	4 µL 40 µL	±1.3% ±0.8%	±2.0% ±1.5%
0.5 mL	5 µL 100 µL	5 µL	100 µL	10 µL 100 µL	±0.9% ±0.8%	±1.5% ±0.6%
1 mL	10 µL 200 µL	10 µL	200 µL	20 µL 200 µL	±0.9% ±0.6%	±0.9% ±0.4%
2.5 mL	25 µL 500 µL	25 µL	500 µL	50 µL 500 µL	±0.8% ±0.5%	±0.8% ±0.3%
5 mL	50 µL 1,000 µL	50 µL	1,000 µL	100 µL 1,000 µL	±0.6% ±0.5%	±0.6% ±0.25%
10 mL	100 µL 2,000 µL	100 µL	2,000 µL	200 µL 2,000 µL	±0.5% ±0.5%	±0.6% ±0.25%
25 mL	250 µL 5,000 µL	250 µL	5,000 µL	500 µL 5,000 µL	±0.4% ±0.3%	±0.6% ±0.25%
50 mL	500 µL 10,000 µL	500 µL	10,000 µL	1,000 µL 10,000 µL	±0.3% ±0.3%	±0.5% ±0.3%
for Repeater stream/Xstream and Combitips advanced system						
0.1 mL	1 µL  100 µL	0.1 µL	0.1 mL	10 µL 50 µL 100 µL	±1.6% ±1.0% ±1.0%	±2.5% ±1.5% ±0.5%
0.2 mL	2 µL  200 µL	0.2 µL	0.2 mL	20 µL 100 µL 200 µL	±1.3% ±1.0% ±1.0%	±1.5% ±1.0% ±0.5%
0.5 mL	5 µL  500 µL	0.5 µL	0.5 mL	50 µL 250 µL 500 µL	±0.9% ±0.9% ±0.9%	±0.8% ±0.5% ±0.3%
1 mL	10 µL  1 mL	1 µL	1 mL	100 µL 500 µL 1,000 µL	±0.9% ±0.6% ±0.6%	±0.55% ±0.3% ±0.2%
2.5 mL	2.5 mL  2.5 mL	2.5 µL	2.5 mL	250 µL 1,250 µL 2,500 µL	±0.8% ±0.5% ±0.5%	±0.45% ±0.3% ±0.15%
5 mL	50 µL  5 mL	5 µL	5 mL	500 µL 2,500 µL 5,000 µL	±0.8% ±0.5% ±0.5%	±0.35% ±0.25% ±0.15%
10 mL	100 µL  10 mL	10 µL	10 mL	1,000 µL 5,000 µL 10,000 µL	±0.5% ±0.4% ±0.4%	±0.25% ±0.25% ±0.15%
25 mL	250 µL  25 mL	25 µL	25 mL	2,500 µL 12,500 µL 25,000 µL	±0.3% ±0.3% ±0.3%	±0.35% ±0.25% ±0.15%
50 mL	500 µL  50 mL	50 µL	50 mL	5,000 µL 25,000 µL 50,000 µL	±0.3% ±0.3% ±0.3%	±0.5% ±0.2% ±0.15%

\*<sup>1</sup> The data for imprecision (random error) and inaccuracy (systematic error) according to EN ISO 8655 only apply when using original Eppendorf Combitips advanced.

#### Compatibility of Combitips advanced with standard laboratory tubes

Combitips advanced	Eppendorf Safe-Lock Tubes			Conical tubes		Eppendorf Deepwell Plates		
	0.5 mL	1.5 mL	2.0 mL	15 mL	50 mL	96/500 µL	96/1000 µL	96/2000 µL
0.2 mL	+	+	+	–	–	+	+	+
0.5 mL	+	+	+	–	–	+	+	+
1 mL	+	+	+	–	–	+	+	+
2.5 mL	⊕	⊕	⊕	⊕	⊕	+	⊕	⊕
5 mL	+	+	+	⊕	⊕	+	+	+
10 mL	+	+	+	–	⊕	+	+	+
25 mL	–	+	+	–	–	+	+	+
50 mL	–	+	+	–	–	+	+	+

⊕ = improved compatibility compared to the Combitip plus generation

## The Third Dimension of Tip Technology



### Repeater connection

Automatic Combitip recognition and volume calculation



### Ergonomic design

Unique funnel geometry prevents damage to gloves and ensures comfortable handling



### Individually color coded

Quick identification of the desired Combitips facilitates the workflow (color coding is also visible on packaging!)



### Elongated tips (for 2.5 mL, 5 mL and 10 mL)

Complete emptying of all common tubes prevents sample loss (see table on page 4)



### Optimized graduation

Visibility of liquid volume using optimized graduations



### Made of virgin polypropylen

Free of slip agents, biocides and plasticizers



#### Ordering information

Combitips advanced®	Color coding	Eppendorf Quality	Sterile	Eppendorf Biopur®
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	■ Red	0030 089.472	0030 089.839	0030 089.685
50 mL	■ Light gray	0030 089.480	0030 089.847	0030 089.693

#### Ordering information

Accessories	Color coding	Eppendorf Quality	Eppendorf Biopur®
25 mL adapter (1 pc.)	■ Red	0030 089.715	
50 mL adapter (1 pc.)	■ Light gray	0030 089.723	
25 mL adapter (7 pc.)	■ Red		0030 089.731
50 mL adapter (7 pc.)	■ Light gray		0030 089.740
Combitip Rack (for 8 Combitips advanced, 0.1 mL–10 mL)		0030 089.758	

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

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