



## Eppendorf Combitips® advanced

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## Time for a New Original!

The invention of the Multipette®/Combitips system marked a milestone in the field of Liquid Handling. Executing long pipetting and dispensing series became remarkably simpler and faster while more reproducible results could be achieved when dealing with viscous, volatile or other challenging liquid types. With innovative sensor technology for automatic tip recognition, the Multipette/Combitips system has become an indispensable tool for every laboratory.

Eppendorf experts have thoroughly optimized the Combitips plus dispenser tips to meet new demands of modern laboratories. The result: Combitips advanced - a 360° evolution with a variety of advantages in comparison to their predecessor Combitips plus.

## 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 hermetically 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 (with the Multipette®)

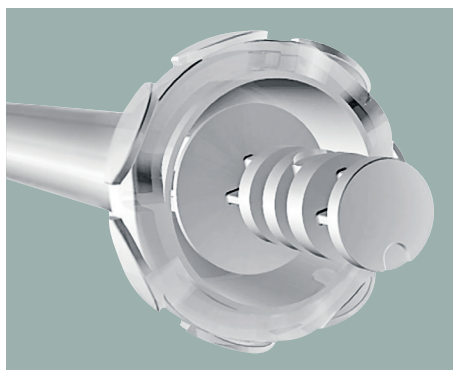


## Unmistakable Down to the Last Detail



### Intelligent packaging

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



### Unmistakably Eppendorf

Combitips advanced feature the characteristic Eppendorf 3D design on the upper rim of the dispenser tip, allowing you to easily and confidently recognize the Eppendorf Original!



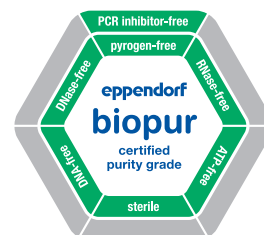
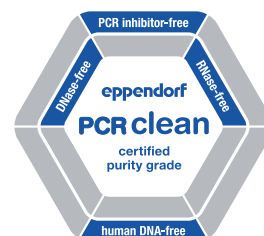
### A perfect team

Whether you are using the Multipipette E3x, Multipipette M4 or older models – Combitips advanced are optimized for all Multipipette variants to create the perfect connection!



### Always easy to reach

The Combitips advanced Box 2.0 features trouble-free and single-hand operation. The autoclavable box 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.



### Variety and selection

With 9 volume sizes (0.1 mL to 50 mL) and 4 purity grades (Eppendorf Quality™, PCR clean, Biopur® and Forensic DNA Grade) 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!

Para más información:

<https://www.proquinorte.com/contactanos/>

## Technical specifications

| Combitips advanced®                              | Min./max.<br>volume | Increment/<br>step size | Volume   |           | Systematic error*1 |        | Random error*1 |        |
|--------------------------------------------------|---------------------|-------------------------|----------|-----------|--------------------|--------|----------------|--------|
| for Multipette E3x and Combitips advanced system |                     |                         |          |           |                    |        |                |        |
| 0.1 mL                                           | 1 µL                | 0.1 µL                  | 1 µL     | 50 µL     | ±11.0%             | ±1.0%  | ±14.0%         | ±1.5%  |
|                                                  | 100 µL              |                         | 10 µL    | 100 µL    | ±1.6%              | ±1.0%  | ±2.5%          | ±0.5%  |
| 0.2 mL                                           | 2 µL                | 0.2 µL                  | 2 µL     | 100 µL    | ±4.0%              | ±1.0%  | ±5.5%          | ±1.0%  |
|                                                  | 200 µL              |                         | 20 µL    | 200 µL    | ±1.3%              | ±1.0%  | ±1.5%          | ±0.5%  |
| 0.5 mL                                           | 5 µL                | 0.5 µL                  | 5 µL     | 250 µL    | ±3.0%              | ±0.9%  | ±6.0%          | ±0.5%  |
|                                                  | 500 µL              |                         | 50 µL    | 500 µL    | ±0.9%              | ±0.9%  | ±0.8%          | ±0.3%  |
| 1 mL                                             | 10 µL               | 1 µL                    | 10 µL    | 500 µL    | ±3.5%              | ±0.6%  | ±7.0%          | ±0.30% |
|                                                  | 1 mL                |                         | 100 µL   | 1,000 µL  | ±0.9%              | ±0.6%  | ±0.55%         | ±0.20% |
| 2.5 mL                                           | 25 µL               | 2.5 µL                  | 25 µL    | 1,250 µL  | ±2.0%              | ±0.5%  | ±3.5%          | ±0.30% |
|                                                  | 2.5 mL              |                         | 250 µL   | 2,500 µL  | ±0.8%              | ±0.5%  | ±0.45%         | ±0.15% |
| 5 mL                                             | 50 µL               | 5 µL                    | 50 µL    | 2,500 µL  | ±2.5%              | ±0.50% | ±6.0%          | ±0.25% |
|                                                  | 5 mL                |                         | 500 µL   | 5,000 µL  | ±0.8%              | ±0.50% | ±0.35%         | ±0.15% |
| 10 mL                                            | 100 µL              | 10 µL                   | 100 µL   | 5,000 µL  | ±1.5%              | ±0.4%  | ±3.5%          | ±0.25% |
|                                                  | 10 mL               |                         | 1,000 µL | 10,000 µL | ±0.5%              | ±0.4%  | ±0.25%         | ±0.15% |
| 25 mL                                            | 250 µL              | 25 µL                   | 250 µL   | 12,500 µL | ±2.5%              | ±0.3%  | ±3.0%          | ±0.25% |
|                                                  | 25 mL               |                         | 2,500 µL | 25,000 µL | ±0.3%              | ±0.3%  | ±0.35%         | ±0.15% |
| 50 mL                                            | 500 µL              | 50 µL                   | 500 µL   | 25,000 µL | ±2.0%              | ±0.3%  | ±3.0%          | ±0.20% |
|                                                  | 50 mL               |                         | 5,000 µL | 50,000 µL | ±0.3%              | ±0.3%  | ±0.50%         | ±0.15% |
| for Multipette M4 and Combitips advanced system  |                     |                         |          |           |                    |        |                |        |
| 0.1 mL                                           | 1 µL                | 1 µL                    | 1 µL     | 10 µL     | ±8.0%              | ±1.2%  | ±13.0%         | ±2.4%  |
|                                                  | 20 µL               |                         | 2 µL     | 20 µL     | ±1.6%              | ±1.0%  | ±3.0%          | ±2.0%  |
| 0.2 mL                                           | 2 µL                | 2 µL                    | 2 µL     | 10 µL     | ±6.0%              | ±0.8%  | ±8.0%          | ±1.5%  |
|                                                  | 40 µL               |                         | 4 µL     | 40 µL     | ±1.3%              | ±0.8%  | ±2.0%          | ±1.5%  |
| 0.5 mL                                           | 5 µL                | 5 µL                    | 5 µL     | 50 µL     | ±4.0%              | ±0.8%  | ±8.0%          | ±0.8%  |
|                                                  | 100 µL              |                         | 10 µL    | 100 µL    | ±0.9%              | ±0.8%  | ±1.5%          | ±0.6%  |
| 1 mL                                             | 10 µL               | 10 µL                   | 10 µL    | 100 µL    | ±4.0%              | ±0.6%  | ±8.0%          | ±0.6%  |
|                                                  | 200 µL              |                         | 20 µL    | 200 µL    | ±0.9%              | ±0.6%  | ±0.9%          | ±0.4%  |
| 2.5 mL                                           | 25 µL               | 25 µL                   | 25 µL    | 250 µL    | ±4.0%              | ±0.6%  | ±8.0%          | ±0.6%  |
|                                                  | 500 µL              |                         | 50 µL    | 500 µL    | ±0.8%              | ±0.5%  | ±0.8%          | ±0.3%  |
| 5 mL                                             | 50 µL               | 50 µL                   | 50 µL    | 500 µL    | ±3.0%              | ±0.5%  | ±5.0%          | ±0.5%  |
|                                                  | 1,000 µL            |                         | 100 µL   | 1,000 µL  | ±0.6%              | ±0.5%  | ±0.6%          | ±0.25% |
| 10 mL                                            | 100 µL              | 100 µL                  | 100 µL   | 1,000 µL  | ±3.0%              | ±0.5%  | ±4.0%          | ±0.4%  |
|                                                  | 2,000 µL            |                         | 200 µL   | 2,000 µL  | ±0.5%              | ±0.5%  | ±0.6%          | ±0,25% |
| 25 mL                                            | 250 µL              | 250 µL                  | 250 µL   | 2,500 µL  | ±3.0%              | ±0.3%  | ±3.0%          | ±0.5%  |
|                                                  | 5,000 µL            |                         | 500 µL   | 5,000 µL  | ±0.4%              | ±0.3%  | ±0.6%          | ±0.25% |
| 50 mL                                            | 500 µL              | 500 µL                  | 500 µL   | 5,000 µL  | ±6.0%              | ±0.3%  | ±10.0%         | ±0.5%  |
|                                                  | 10,000 µL           |                         | 1,000 µL | 10,000 µL | ±0.3%              | ±0.3%  | ±0.5%          | ±0.25% |

\*1 The data for systematic and random errors, according to EN ISO 8655, only apply if original Eppendorf Combitips advanced are used. Technical specification are subject to change. Errors and omissions excepted.

## 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 | 5.0 mL | 15 mL         | 25 mL | 50 mL | 96 wells/<br>500 µL       | 96 wells/<br>1000 µL | 96 wells/<br>2000 µL | 384 wells/<br>200 µL |
| 0.1 mL             | +                         | +      | +      | +      | –             | –     | –     | +                         | +                    | +                    | +                    |
| 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



### Multipette 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 polypropylene

Free of slip agents, biocides and plasticizers.



# Ordering information

| Combitips® advanced                                                                                                                                             | Color code                                                                                     | Eppendorf Quality<br>100 pcs.<br>(4 bags × 25 pcs.) | PCR clean <sup>*1</sup><br>100 pcs.<br>(4 reclosable<br>bags × 25 pcs.) | Biopur® <sup>*2</sup><br>100 pcs.,<br>individually<br>blister-wrapped | Forensic DNA Grade<br>100 pcs.,<br>individually<br>blister-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                                                                                                                                                          |  violet       | 0030 089 421                                        | 0030 089 782                                                            | 0030 089 634                                                          |                                                                    |
| 1.0 mL                                                                                                                                                          |  yellow       | 0030 089 430                                        | 0030 089 790                                                            | 0030 089 642                                                          | 0030 089 855                                                       |
| 2.5 mL                                                                                                                                                          |  green        | 0030 089 448                                        | 0030 089 804                                                            | 0030 089 650                                                          | 0030 089 863                                                       |
| 5.0 mL                                                                                                                                                          |  blue         | 0030 089 456                                        | 0030 089 812                                                            | 0030 089 669                                                          | 0030 089 871                                                       |
| 10 mL                                                                                                                                                           |  orange       | 0030 089 464                                        | 0030 089 820                                                            | 0030 089 677                                                          |                                                                    |
| 25 mL <sup>*3</sup>                                                                                                                                             |  red          | 0030 089 472                                        | 0030 089 839                                                            | 0030 089 685                                                          |                                                                    |
| 50 mL <sup>*3</sup>                                                                                                                                             |  light gray   | 0030 089 480                                        | 0030 089 847                                                            | 0030 089 693                                                          |                                                                    |
| <b>ViscoTip®</b>                                                                                                                                                |                                                                                                |                                                     |                                                                         |                                                                       |                                                                    |
| 10 mL                                                                                                                                                           |  orange       | 0030 089 502                                        |                                                                         |                                                                       |                                                                    |
| <b>Accessories</b>                                                                                                                                              |                                                                                                |                                                     |                                                                         |                                                                       |                                                                    |
| <b>Adapter advanced</b>                                                                                                                                         |                                                                                                |                                                     |                                                                         |                                                                       |                                                                    |
| 25 mL, autoclavable, 1 piece                                                                                                                                    |  red         | 0030 089 715                                        |                                                                         |                                                                       |                                                                    |
| 25 mL, autoclavable, 7 pcs.,<br>individually wrapped                                                                                                            |  red        |                                                     |                                                                         | 0030 089 731                                                          |                                                                    |
| 50 mL, autoclavable, 1 piece                                                                                                                                    |  light gray | 0030 089 723                                        |                                                                         |                                                                       |                                                                    |
| 50 mL, autoclavable, 7 pcs.,<br>individually wrapped                                                                                                            |  light gray |                                                     |                                                                         | 0030 089 740                                                          |                                                                    |
| <b>Combitips® advanced Box 2.0</b> , for 8<br>Combitips® advanced (0.1 – 10 mL),<br>Eppendorf Quality, 1 piece                                                  |                                                                                                | 0030 089 952                                        |                                                                         |                                                                       |                                                                    |
| <b>Combitips® advanced Assortment Pack</b> ,<br>contains one Combitips® advanced sample<br>of each size and Adapter advanced 25 and<br>50 mL, Eppendorf Quality |                                                                                                | 0030 089 936                                        |                                                                         |                                                                       |                                                                    |

<sup>\*1</sup> PCR clean: batch tested and certified to be free of: human DNA, DNase, RNase, PCR inhibitors

<sup>\*2</sup> Eppendorf Biopur®: batch tested and certified to be sterile and free of: human and bacterial DNA, DNase, RNase, PCR inhibitors, ATP, pyrogen

<sup>\*3</sup> 4 boxes of 25 pcs. each. Each box containing one adapter



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