



# Combitips advanced<sup>®</sup> ViscoTip<sup>®</sup>

Instructions for use

Copyright© 2018 Eppendorf AG, Germany. All rights reserved, including graphics and images. No part of this publication may be reproduced without the prior permission of the copyright owner.

Eppendorf® and the Eppendorf Brand Design are registered trademarks of Eppendorf AG, Germany.

Biopur®, Combitips advanced®, Multipette®, Repeater® and ViscoTip® are registered trademarks of Eppendorf AG, Germany.

Registered trademarks and protected trademarks are not marked in all cases with ® or ™ in this manual.

## Table of contents

|          |  |           |
|----------|--|-----------|
| <b>1</b> | <b>Operating instructions</b> .....                | <b>4</b>  |
| 1.1      | Using this manual .....                            | 4         |
| 1.2      | Symbols used .....                                 | 4         |
| <b>2</b> | <b>Safety</b> .....                                | <b>4</b>  |
| 2.1      | Intended use .....                                 | 4         |
| 2.2      | Application limits .....                           | 4         |
| 2.3      | Warnings for intended use .....                    | 5         |
| <b>3</b> | <b>Product description</b> .....                   | <b>6</b>  |
| 3.1      | Product overview .....                             | 6         |
| 3.2      | Features .....                                     | 6         |
| 3.3      | Overview of dispenser tips .....                   | 7         |
| 3.3.1    | Combitips advanced volume ranges .....             | 7         |
| 3.3.2    | ViscoTip volume range .....                        | 7         |
| 3.4      | Dispenser .....                                    | 8         |
| 3.4.1    | Current dispensers .....                           | 8         |
| 3.4.2    | Compatible dispensers .....                        | 8         |
| 3.5      | Materials .....                                    | 8         |
| <b>4</b> | <b>Operation</b> .....                             | <b>9</b>  |
| 4.1      | Unpacking the dispenser tip .....                  | 9         |
| 4.2      | Assembling the dispenser tip and the adapter ..... | 9         |
| <b>5</b> | <b>Maintenance</b> .....                           | <b>10</b> |
| 5.1      | Cleaning .....                                     | 10        |
| 5.1.1    | Autoclaving the Adapter advanced .....             | 10        |
| 5.1.2    | Autoclaving the Combitips advanced Rack .....      | 10        |
| <b>6</b> | <b>Technical data</b> .....                        | <b>10</b> |
| 6.1      | Ambient conditions .....                           | 10        |
| 6.2      | Eppendorf purity grades .....                      | 11        |
| 6.3      | Certificates .....                                 | 11        |
| <b>7</b> | <b>Transport, storage and disposal</b> .....       | <b>12</b> |
| 7.1      | Storage .....                                      | 12        |
| <b>8</b> | <b>Ordering information</b> .....                  | <b>13</b> |
| 8.1      | Dispenser tip – Combitips advanced .....           | 13        |
| 8.1.1    | Purity grade – Eppendorf Quality .....             | 13        |
| 8.1.2    | Purity grade – Sterile .....                       | 14        |
| 8.1.3    | Purity grade – Biopur .....                        | 15        |
| 8.1.4    | Purity grade – PCR clean .....                     | 16        |
| 8.1.5    | Purity grade – Forensic DNA Grade .....            | 16        |
| 8.1.6    | Adapter advanced for Combitips advanced .....      | 17        |
| 8.2      | Dispenser tip – ViscoTip .....                     | 17        |
| 8.2.1    | Purity grade – Eppendorf Quality .....             | 17        |
| 8.3      | Accessories .....                                  | 17        |
| 8.4      | Current dispensers .....                           | 18        |
| 8.4.1    | Multipette E3/E3x – Repeater E3/E3x .....          | 18        |
| 8.4.2    | Multipette M4 – Repeater M4 .....                  | 18        |

## 1 Operating instructions

### 1.1 Using this manual

Before using the dispenser tips for the first time, read these instructions for use and the operating manual of the dispenser that you use the dispenser tips with. The current version can be found on the Internet at [www.ependorf.com/manuals](http://www.ependorf.com/manuals). These instructions for use do not replace the operating manual of the dispenser.

### 1.2 Symbols used

| Depiction   | Meaning                           |
|-------------|-----------------------------------|
| 1.<br>2.    | Actions in the specified order    |
| ▶           | Actions without a specified order |
| •           | List                              |
| <i>Text</i> | Display or software texts         |
| <b>i</b>    | Additional information            |

## 2 Safety

### 2.1 Intended use

The Combitips advanced and ViscoTip dispenser tips are exclusively designed for use with an Eppendorf dispenser (Multipette or Repeater) to dispense liquids within a volume range of 1 µL – 50 mL. In-vivo applications (applications in or on the human body) are not allowed. The dispenser tips may only be used by trained and skilled personnel. The user must carefully read the instructions for use of the dispenser tips and the operating manual of the dispenser used and have become familiar with how the device works.

### 2.2 Application limits

| Dispenser tip      | Dynamic viscosity       |
|--------------------|-------------------------|
| Combitips advanced | Up to 200 mPa·s         |
| ViscoTip           | 200 mPa·s – 14000 mPa·s |

## 2.3 Warnings for intended use

---



**WARNING! Damage to health due to infectious liquids and pathogenic germs.**

- ▶ When handling infectious liquids and pathogenic germs, observe the national regulations, the biosafety level of your laboratory, the Material Safety Data Sheets, and the manufacturer's application notes.
- ▶ Wear your personal protective equipment.
- ▶ Consult the "Laboratory Biosafety Manual" (source: World Health Organization, Laboratory Biosafety Manual, in its respectively current valid version).



**WARNING! Damage to health due to toxic, radioactive or aggressive chemicals.**

- ▶ Wear your personal protective equipment.
- ▶ Observe the national regulations for handling these substances.
- ▶ Observe the material safety data sheets and manufacturer's application notes.



**NOTICE! Carry-over, contamination and incorrect dispensing results due to incorrect use of dispenser tips.**

Dispenser tips are intended for single use. Prolonged use can have a negative impact on dispensing accuracy.

- ▶ Use dispenser tips only once.
- ▶ Do not use washed or autoclaved dispenser tips for dispensing.



**NOTICE! Incorrect dispensing results due to evaporation.**

If dispensing with a Combitip that has already been filled is continued after a long waiting time, the dispensing volume in the next dispensing step may be slightly reduced due to evaporation.

- ▶ If high accuracy is required, discard this dispensing step.



**WARNING! Personal injury and material damage due to bursting dispenser tip.**

If stored for a long period of time, liquids can crystallize or solidify and thus block the outlet opening. The dispenser tip can burst during dispensing.

- ▶ Check the consistency of the liquid.
  - ▶ Dispense immediately after liquid aspiration.
-

## Product description

Combitips advanced®/ViscoTip®  
English (EN)

## 3 Product description

### 3.1 Product overview

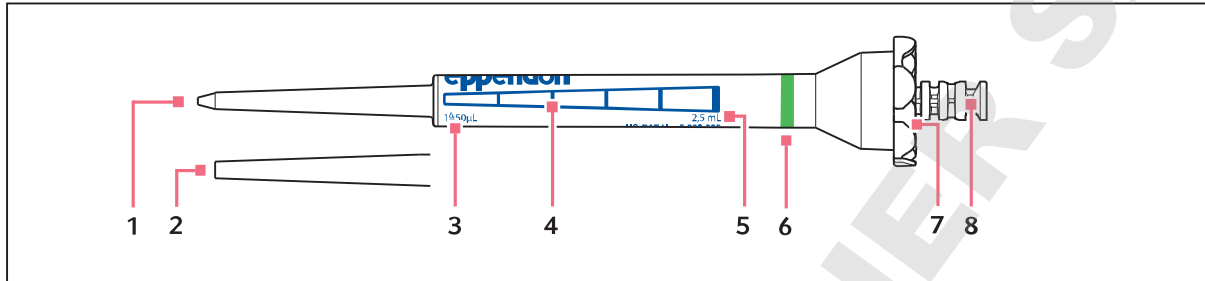


Fig. 3-1: Dispenser tip (example: Combitip advanced 2.5 mL)

#### 1 Dispenser opening

Combitips advanced

#### 2 Dispenser opening

ViscoTip

#### 3 Dispensing volume

Selection dial position 1 on a mechanical dispenser

#### 4 Graduation

Volume graduation in 5 increments

#### 5 Maximum volume

#### 6 Color code for volume identification

One colored ring = Combitip advanced  
Two colored rings = ViscoTip

#### 7 Coding

For automatic volume identification of the dispenser

#### 8 Piston

### 3.2 Features

Combitips advanced and ViscoTip are single-use dispenser tips for aspirating and dispensing liquid. The dispenser tips consist of a cylinder and an integrated piston and function according to the positive displacement principle. The dispenser tips are available in different sizes. The sizes can be identified by colored rings. An adapter (Adapter advanced) is required for the sizes 25 mL and 50 mL.

The ViscoTip dispenser tip is specifically designed for highly viscous liquids (e.g., Glycerol, Tween 20, honey, oils, etc.).



Dispensing systems consisting of a dispenser tip and a dispenser comply with the errors of measurement under the test conditions specified by ISO 8655 for water-based liquids. The tables with the errors of measurement are included in the operating manual of the respective dispenser. Higher viscous liquids may cause deviating measured values. For more information on viscous liquids and their influence on errors of measurement, please go to [www.eppendorf.com/manuals](http://www.eppendorf.com/manuals).

### 3.3 Overview of dispenser tips

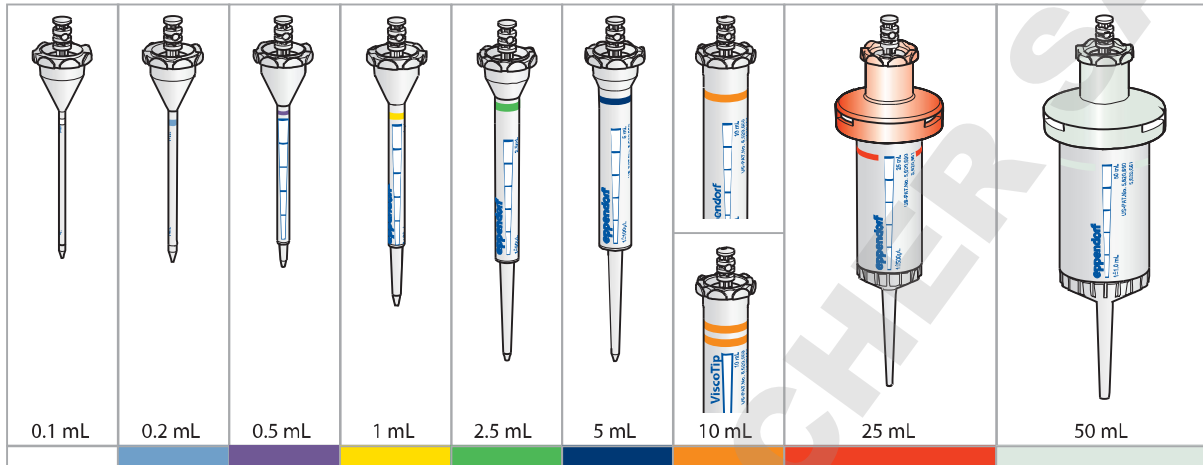


Fig. 3-2: Combitips advanced (one colored ring) and ViscoTip (two colored rings)

#### 3.3.1 Combitips advanced volume ranges

| Combitip advanced    | Volume range    | Increment |
|----------------------|-----------------|-----------|
| 0.1 mL<br>white      | 1.0 µL – 100 µL | 0.1 µL    |
| 0.2 mL<br>light blue | 2.0 µL – 200 µL | 0.2 µL    |
| 0.5 mL<br>violet     | 5.0 µL – 500 µL | 0.5 µL    |
| 1.0 mL<br>yellow     | 10 µL – 1000 µL | 1.0 µL    |
| 2.5 mL<br>green      | 25 µL – 2500 µL | 2.5 µL    |
| 5.0 mL<br>blue       | 50 µL – 5000 µL | 5.0 µL    |
| 10 mL<br>orange      | 0.1 mL – 10 mL  | 0.01 mL   |
| 25 mL<br>red         | 0.25 mL – 25 mL | 0.025 mL  |
| 50 mL<br>light gray  | 0.5 mL – 50 mL  | 0.05 mL   |

#### 3.3.2 ViscoTip volume range

| ViscoTip        | Volume range   | Increment |
|-----------------|----------------|-----------|
| 10 mL<br>orange | 0.1 mL – 10 mL | 0.01 mL   |

### 3.4 Dispenser

All dispenser tips can be used with the following dispensers:

#### 3.4.1 Current dispensers

| Dispenser  | Dispensing range |
|--|------------------|
| Multipette E3/Multipette E3x<br>Repeater E3/Repeater E3x | 1 µL – 50 mL     |
| Multipette M4<br>Repeater M4                             | 1 µL – 10 mL     |

#### 3.4.2 Compatible dispensers

| Dispenser                              | Dispensing range |
|--|------------------|
| Multipette 4780<br>Repeater 4780       | 2 µL – 5 mL      |
| Multipette plus<br>Repeater plus       | 1 µL – 10 mL     |
| Multipette pro<br>Repeater pro         | 1 µL – 50 mL     |
| Multipette stream<br>Repeater stream   | 1 µL – 50 mL     |
| Multipette Xstream<br>Repeater Xstream | 1 µL – 50 mL     |
| EDOS 5222                              | 1 µL – 50 mL     |

### 3.5 Materials



**NOTICE!** Aggressive substances may damage dispensers, dispenser tips and accessories.

- ▶ Check the chemical resistance when using organic solvents or aggressive chemicals.
- ▶ Observe the cleaning instructions.

| Dispenser tip             | Material                                |
|---------------------------|---|
| Cylinder                  | Polypropylene (PP)                      |
| Piston, 0.1 mL and 0.2 mL | Polyethylene (PE) with glass fiber (GF) |
| Piston, 0.5 mL to 50 mL   | Polyethylene (PE)                       |
| Adapter advanced          | Polybutylene terephthalate (PBT)        |

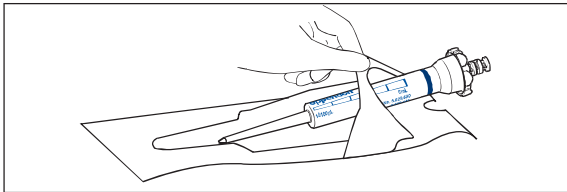


## 4 Operation

### 4.1 Unpacking the dispenser tip



To ensure maximum protection against contamination, use dispenser tips of the Sterile and Biopur purity grades straight after opening the packaging.



1. Open the packing at the location indicated.
2. Insert the dispenser tip into the dispenser.

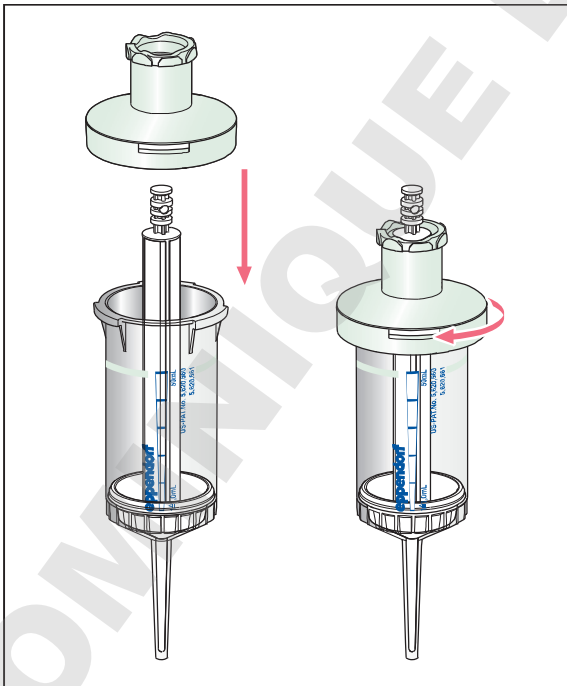
### 4.2 Assembling the dispenser tip and the adapter

Dispenser tips (25 mL and 50 mL) can only be used with a matching adapter. The color of the adapter is the same as the color code of the dispenser tip.



**NOTICE! Sensor damage due to damaged or worn adapters.**

- ▶ Always assemble the adapter and the dispenser tip outside the dispenser.
- ▶ Do not use damaged or worn adapters.
- ▶ Do not use adapters with damaged coding.



1. Fit the adapter onto the dispenser tip.
2. Tighten the adapter.

## 5 Maintenance

### 5.1 Cleaning



Dispenser tips are not autoclavable.

#### 5.1.1 Autoclaving the Adapter advanced

- ▶ Rinse the Adapter advanced with water.
- ▶ Autoclave the Adapter advanced for 20 min at a positive pressure of 1 bar and a temperature of 121 °C. The Adapter advanced can be autoclaved up to 100 times.

#### 5.1.2 Autoclaving the Combitips advanced Rack






- ▶ Autoclave the empty Combitips advanced Rack for 20 min at a positive pressure of 1 bar and a temperature of 121 °C. Racks can be autoclaved up to 100 times.

## 6 Technical data

### 6.1 Ambient conditions

|                      |                             |
|----------------------|-----------------------------|
| Environment          | For indoor use only         |
| Ambient temperature  | 4°C – 40 °C                 |
| Relative humidity    | 10 % – 95 %, non-condensing |
| Atmospheric pressure | 79.5 kPa – 166 kPa          |

## 6.2 Eppendorf purity grades

|  | Eppendorf Quality   | Sterile   | PCR clean  | Biopur  | Forensic DNA Grade  |
|--|---|---|--|---|---|
|  |  |  |  |  |  |

Batch testing (certified) for the following purity criteria

|  |  |   |   |   |   |
|--|--|---|---|---|---|
| Human DNA-free                             |  |   | ■ | ■ | ■ |
| DNA-free (free of human and bacterial DNA) |  |   |   | ■ |   |
| DNase-free                                 |  |   | ■ | ■ | ■ |
| RNase-free                                 |  |   | ■ | ■ | ■ |
| PCR inhibitor-free                         |  |   | ■ | ■ | ■ |
| ATP-free                                   |  |   |   | ■ |   |
| Pyrogen-free (endotoxin-free)              |  | ■ |   | ■ |   |
| Sterile (Ph.Eur./USP)                      |  | ■ |   | ■ |   |

## 6.3 Certificates

There are different categories of certificates for Eppendorf consumables:

Batch-specific certificates are prepared for the following purity grades:

- Biopur
- Forensic DNA Grade
- PCR clean
- Sterile

General certificates of conformity:

- Certificate of conformity for products with the purity grade Biopur (Certificate of Quality/Conformity – Biopur)
- Certificate of conformity for products with the purity grade Forensic DNA Grade (Certificate of Purity – Eppendorf Forensic DNA Grade according to ISO 18385)
- Certificate of conformity for products with the purity grade PCR clean (Certificate of Purity – PCR clean)
- Combitips advanced certificate of conformity (Certificate of Quality – Combitips advanced)
- Certificate of conformity regarding trace metal (Certificate of Quality – Combitips advanced. – Typical values for trace metal)
- Certificate of conformity regarding toxic tests (Certificate of Quality – Results of Mouse Embryotoxicity Test)
- Certificate of conformity regarding the plastic granulates used (Certificate of Quality/Conformity – Laboratory Consumables)

All certificates can be downloaded from our website [www.eppendorf.com/certificates](http://www.eppendorf.com/certificates).

## 7 Transport, storage and disposal

### 7.1 Storage



**NOTICE! Damage to device due to incorrect storage.**

- ▶ Do not store the device with the dispenser tip inserted.
- ▶ Select a secure storage location.
- ▶ Do not expose the device to aggressive gases over an extended period.



**NOTICE! Damage due to UV radiation.**

- ▶ Do not store consumables in areas with strong UV radiation.

|                           | <b>Air temperature</b> | <b>Relative humidity</b> | <b>Atmospheric pressure</b> |
|---------------------------|------------------------|--------------------------|-----------------------------|
| In transport packing      | -25 °C – 45 °C         | 10 % – 95 %              | 70 kPa – 106 kPa            |
| Without transport packing | -5 °C – 45 °C          | 10 % – 95 %              | 70 kPa – 106 kPa            |

**8 Ordering information**  
**8.1 Dispenser tip – Combitips advanced**  
**8.1.1 Purity grade – Eppendorf Quality**

| Order no.<br>(International) | Order no. (North America) | Description  |
|------------------------------|---------------------------|--|
| 0030 089.405                 | 0030089405                | <b>Combitips advanced 0.1 mL</b><br>100 pieces<br>Eppendorf Quality            |
| 0030 089.413                 | 0030089413                | <b>Combitips advanced 0.2 mL</b><br>100 pieces<br>Eppendorf Quality            |
| 0030 089.421                 | 0030089421                | <b>Combitips advanced 0.5 mL</b><br>100 pieces<br>Eppendorf Quality            |
| 0030 089.430                 | 0030089430                | <b>Combitips advanced 1.0 mL</b><br>100 pieces<br>Eppendorf Quality            |
| 0030 089.448                 | 0030089448                | <b>Combitips advanced 2.5 mL</b><br>100 pieces<br>Eppendorf Quality            |
| 0030 089.456                 | 0030089456                | <b>Combitips advanced 5.0 mL</b><br>100 pieces<br>Eppendorf Quality            |
| 0030 089.464                 | 0030089464                | <b>Combitips advanced 10 mL</b><br>100 pieces<br>Eppendorf Quality             |
| 0030 089.472                 | 0030089472                | <b>Combitips advanced 25 mL</b><br>100 pieces + 4 Adapter<br>Eppendorf Quality |
| 0030 089.480                 | 0030089480                | <b>Combitips advanced 50 mL</b><br>100 pieces + 4 Adapter<br>Eppendorf Quality |

### 8.1.2 Purity grade – Sterile

| Order no. (International) | Order no. (North America) | Description  |
|---------------------------|---------------------------|--|
| -                         | 0030089510                | <b>Combitips advanced 0.1 mL</b><br>100 pieces<br>Sterile, individually wrapped            |
| -                         | 0030089529                | <b>Combitips advanced 0.2 mL</b><br>100 pieces<br>Sterile, individually wrapped            |
| -                         | 0030089537                | <b>Combitips advanced 0.5 mL</b><br>100 pieces<br>Sterile, individually wrapped            |
| -                         | 0030089545                | <b>Combitips advanced 1.0 mL</b><br>100 pieces<br>Sterile, individually wrapped            |
| -                         | 0030089553                | <b>Combitips advanced 2.5 mL</b><br>100 pieces<br>Sterile, individually wrapped            |
| -                         | 0030089561                | <b>Combitips advanced 5.0 mL</b><br>100 pieces<br>Sterile, individually wrapped            |
| -                         | 0030089570                | <b>Combitips advanced 10 mL</b><br>100 pieces<br>Sterile, individually wrapped             |
| -                         | 0030089588                | <b>Combitips advanced 25 mL</b><br>100 pieces + 4 Adapter<br>Sterile, individually wrapped |
| -                         | 0030089596                | <b>Combitips advanced 50 mL</b><br>100 pieces + 4 Adapter<br>Sterile, individually wrapped |

### 8.1.3 Purity grade – Biopur

| Order no. (International) | Order no. (North America) | Description   |
|---------------------------|---------------------------|---|
| 0030 089.618              | 0030089618                | <b>Combitips advanced 0.1 mL</b><br>100 pieces<br>Biopur, individually wrapped            |
| 0030 089.626              | 0030089626                | <b>Combitips advanced 0.2 mL</b><br>100 pieces<br>Biopur, individually wrapped            |
| 0030 089.634              | 0030089634                | <b>Combitips advanced 0.5 mL</b><br>100 pieces<br>Biopur, individually wrapped            |
| 0030 089.642              | 0030089642                | <b>Combitips advanced 1.0 mL</b><br>100 pieces<br>Biopur, individually wrapped            |
| 0030 089.650              | 0030089650                | <b>Combitips advanced 2.5 mL</b><br>100 pieces<br>Biopur, individually wrapped            |
| 0030 089.669              | 0030089669                | <b>Combitips advanced 5.0 mL</b><br>100 pieces<br>Biopur, individually wrapped            |
| 0030 089.677              | 0030089677                | <b>Combitips advanced 10 mL</b><br>100 pieces<br>Biopur, individually wrapped             |
| 0030 089.685              | 0030089685                | <b>Combitips advanced 25 mL</b><br>100 pieces + 4 Adapter<br>Biopur, individually wrapped |
| 0030 089.693              | 0030089693                | <b>Combitips advanced 50 mL</b><br>100 pieces + 4 Adapter<br>Biopur, individually wrapped |

#### 8.1.4 Purity grade – PCR clean

| Order no. (International) | Order no. (North America) | Description  |
|---------------------------|---------------------------|--|
| 0030 089.766              | –                         | <b>Combitips advanced 0.1 mL</b><br>100 pieces<br>PCR clean            |
| 0030 089.774              | –                         | <b>Combitips advanced 0.2 mL</b><br>100 pieces<br>PCR clean            |
| 0030 089.782              | –                         | <b>Combitips advanced 0.5 mL</b><br>100 pieces<br>PCR clean            |
| 0030 089.790              | –                         | <b>Combitips advanced 1.0 mL</b><br>100 pieces<br>PCR clean            |
| 0030 089.804              | –                         | <b>Combitips advanced 2.5 mL</b><br>100 pieces<br>PCR clean            |
| 0030 089.812              | –                         | <b>Combitips advanced 5.0 mL</b><br>100 pieces<br>PCR clean            |
| 0030 089.820              | –                         | <b>Combitips advanced 10 mL</b><br>100 pieces<br>PCR clean             |
| 0030 089.839              | –                         | <b>Combitips advanced 25 mL</b><br>100 pieces + 4 Adapter<br>PCR clean |
| 0030 089.847              | –                         | <b>Combitips advanced 50 mL</b><br>100 pieces + 4 Adapter<br>PCR clean |

#### 8.1.5 Purity grade – Forensic DNA Grade

| Order no. (International) | Order no. (North America) | Description  |
|---------------------------|---------------------------|--|
| 0030 089.855              | 0030089855                | <b>Combitips advanced 1.0 mL</b><br>100 pieces<br>Forensic DNA Grade, individually wrapped |
| 0030 089.863              | 0030089863                | <b>Combitips advanced 2.5 mL</b><br>100 pieces<br>Forensic DNA Grade, individually wrapped |
| 0030 089.871              | 0030089871                | <b>Combitips advanced 5.0 mL</b><br>100 pieces<br>Forensic DNA Grade, individually wrapped |



### 8.1.6 Adapter advanced for Combitips advanced

| Order no. (International) | Order no. (North America) | Description   |
|---------------------------|---------------------------|---|
| 0030 089.715              | 0030089715                | <b>Adapter advanced 25 mL</b><br>1 piece<br>Eppendorf Quality             |
| 0030 089.723              | 0030089723                | <b>Adapter advanced 50 mL</b><br>1 piece<br>Eppendorf Quality             |
| 0030 089.731              | 0030089731                | <b>Adapter advanced 25 mL</b><br>7 pieces<br>Biopur, individually wrapped |
| 0030 089.740              | 0030089740                | <b>Adapter advanced 50 mL</b><br>7 pieces<br>Biopur, individually wrapped |

## 8.2 Dispenser tip – ViscoTip

### 8.2.1 Purity grade – Eppendorf Quality

| Order no. (International) | Order no. (North America) | Description  |
|---------------------------|---------------------------|--|
| 0030 089.502              | 0030089502                | <b>ViscoTip 10 mL</b><br>100 pieces<br>Eppendorf Quality |

## 8.3 Accessories

| Order no. (International) | Order no. (North America) | Description  |
|---------------------------|---------------------------|--|
| 0030 089.758              | 0030089758                | <b>Combitips advanced Rack</b><br>1 piece<br>Eppendorf Quality, for 8 dispenser tips (0.1 – 10 mL) |

## 8.4 Current dispensers

### 8.4.1 Multipette E3/E3x – Repeater E3/E3x

| Order no. (International) | Order no. (North America) | Description   |
|---------------------------|---------------------------|---|
| 4987 000.010              | –                         | <b>Multipette E3</b>                                |
| 4987 000.029              | –                         | <b>Multipette E3x</b>                               |
| –                         | 4987000118                | <b>Repeater E3</b>                                  |
| –                         | 4987000134                | <b>Repeater E3x</b>                                 |
| 4987 000.371              | –                         | <b>Multipette E3 bundle</b><br>incl. charger stand  |
| 4987 000.380              | –                         | <b>Multipette E3x bundle</b><br>incl. charger stand |
| –                         | 4987000398                | <b>Repeater E3 bundle</b><br>incl. charger stand    |
| –                         | 4987000410                | <b>Repeater E3x bundle</b><br>incl. charger stand   |

### 8.4.2 Multipette M4 – Repeater M4

| Order no. (International) | Order no. (North America) | Description   |
|---------------------------|---------------------------|---|
| 4982 000.012              | –                         | <b>Multipette M4</b>  |
| –                         | 4982000020                | <b>Repeater M4</b>  |
| 4982 000.314              | –                         | <b>Multipette M4 Starter Kit</b><br>Multipette M4, Combitip Rack, Combitip Assortmentpack |
| –                         | 4982000322                | <b>Repeater M4 Starter Kit</b><br>Repeater M4, Combitip Rack, Combitip Assortmentpack     |

**DOMINIQUE DUTSCHER SAS**

# Evaluate Your Manual

Give us your feedback.  
[www.eppendorf.com/manualfeedback](http://www.eppendorf.com/manualfeedback)