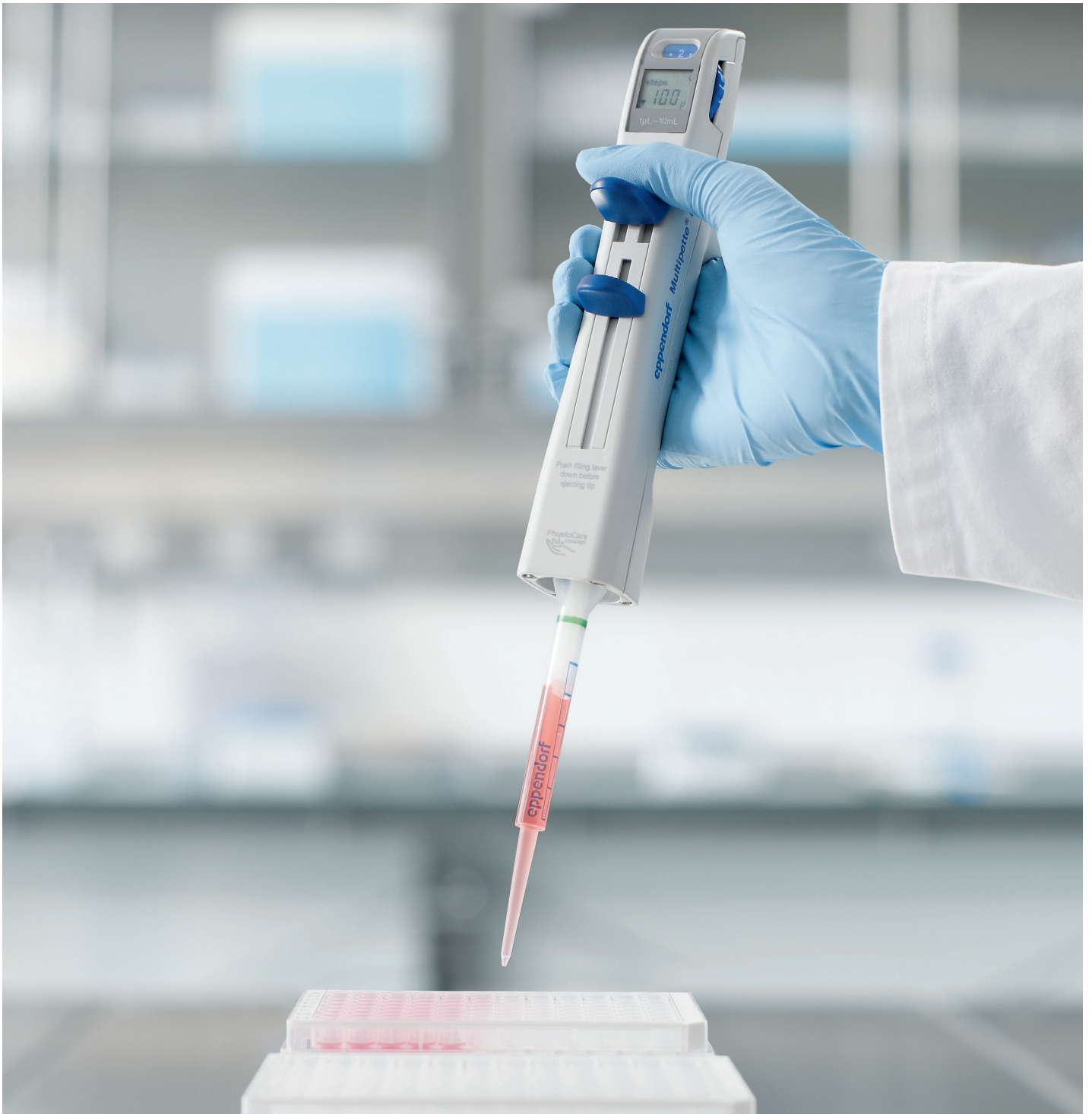


With integrated
step counter



Count on it!

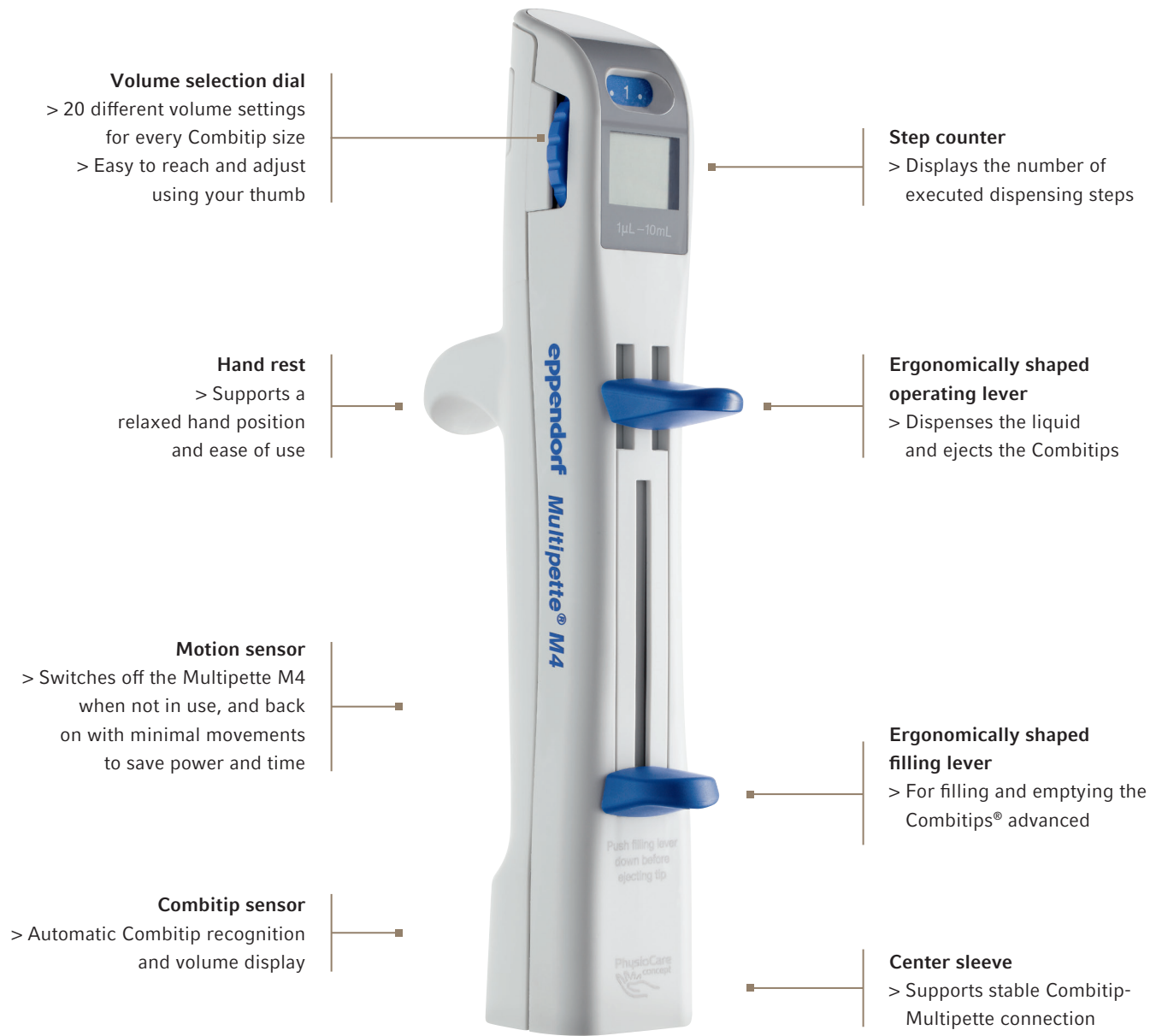
The Multipipette® M4 and Combitips® advanced pipetting system:
simple, stress-free and ergonomic



Serial pipetting made easy

The Multipette M4 makes performing long pipetting series easier and faster. The aspirated liquid can be dispensed up to 100 times without refilling the tip.





How it works

A Combitips® advanced dispenser tip, in the required size, is simply attached and automatically recognized via a sensor in the Multipette M4. The volume is set using the selection dial and is automatically shown in the display. Now all you have to do is aspirate the liquid with the filling lever.

The desired volume can be dispensed in several steps using the utmost precision. Dispense the same volume up to 100 times without refilling the tip – a logical solution for filling 96-well plates.

The executed dispensing steps are counted using the step counter feature and shown in the easy-to-read display. After use, the dispenser tip is simply ejected by pushing a button and disposed of without the risk of contamination or directly touching the tip.

Simple operation, unique flexibility and significant time savings make the Multipette M4 an important liquid handling tool for both novel research and routine tasks.

Position of the volume selection dial:

| | | | | | | | | | | | | | | | | | | | |
|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|----|
| 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |
|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|----|

Maximum number of dispensing steps:

| | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|
| 100 | 50 | 33 | 25 | 20 | 16 | 14 | 12 | 11 | 10 | 9 | 8 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 5 |
|-----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|

Possible dispensing volume for each Combitip advanced

| | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|--------|--------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| 0.1 mL | 1 µL | 2 µL | 3 µL | 4 µL | 5 µL | 6 µL | 7 µL | 8 µL | 9 µL | 10 µL | 11 µL | 12 µL | 13 µL | 14 µL | 15 µL | 16 µL | 17 µL | 18 µL | 19 µL | 20 µL |
| 0.2 mL | 2 µL | 4 µL | 6 µL | 8 µL | 10 µL | 12 µL | 14 µL | 16 µL | 18 µL | 20 µL | 22 µL | 24 µL | 26 µL | 28 µL | 30 µL | 32 µL | 34 µL | 36 µL | 38 µL | 40 µL |
| 0.5 mL | 5 µL | 10 µL | 15 µL | 20 µL | 25 µL | 30 µL | 35 µL | 40 µL | 45 µL | 50 µL | 55 µL | 60 µL | 65 µL | 70 µL | 75 µL | 80 µL | 85 µL | 90 µL | 95 µL | 100 µL |
| 1.0 mL | 10 µL | 20 µL | 30 µL | 40 µL | 50 µL | 60 µL | 70 µL | 80 µL | 90 µL | 100 µL | 110 µL | 120 µL | 130 µL | 140 µL | 150 µL | 160 µL | 170 µL | 180 µL | 190 µL | 200 µL |
| 2.5 mL | 25 µL | 50 µL | 75 µL | 100 µL | 125 µL | 150 µL | 175 µL | 200 µL | 225 µL | 250 µL | 275 µL | 300 µL | 325 µL | 350 µL | 375 µL | 400 µL | 425 µL | 450 µL | 475 µL | 500 µL |
| 5 mL | 50 µL | 100 µL | 150 µL | 200 µL | 250 µL | 300 µL | 350 µL | 400 µL | 450 µL | 500 µL | 550 µL | 600 µL | 650 µL | 700 µL | 750 µL | 800 µL | 850 µL | 900 µL | 950 µL | 1.0 mL |
| 10 mL | 100 µL | 200 µL | 300 µL | 400 µL | 500 µL | 600 µL | 700 µL | 800 µL | 900 µL | 1.0 mL | 1.1 mL | 1.2 mL | 1.3 mL | 1.4 mL | 1.5 mL | 1.6 mL | 1.7 mL | 1.8 mL | 1.9 mL | 2.0 mL |
| 25 mL* | 250 µL | 500 µL | 750 µL | 1.0 mL | 1.25 mL | 1.5 mL | 1.75 mL | 2.0 mL | 2.25 mL | 2.5 mL | 2.75 mL | 3.0 mL | 3.25 mL | 3.5 mL | 3.75 mL | 4.0 mL | 4.25 mL | 4.5 mL | 4.75 mL | 5.0 mL |
| 50 mL* | 500 µL | 1.0 mL | 1.5 mL | 2.0 mL | 2.5 mL | 3.0 mL | 3.5 mL | 4.0 mL | 4.5 mL | 5.0 mL | 5.5 mL | 6.0 mL | 6.5 mL | 7.0 mL | 7.5 mL | 8.0 mL | 8.5 mL | 9.0 mL | 9.5 mL | 10 mL |

* The 25 mL and 50 mL Combitips advanced can only be used with the supplied adapter.



The right Combitip advanced is always at your fingertips!

9 different volume sizes (0.1 mL–50 mL) for the Combitips advanced, along with the Multipette M4, offer a unique dispensing range of 1 µL–10 mL. With 4 different purity grades (Eppendorf Quality, PCR clean, Forensic DNA Grade, Biopur®), you will always find the right tip for your application.

Multipette® M4 – Reaching Beyond a Pipette's Limitations

The ideal precision instrument for completing long pipetting or dispensing series. Even liquids which are difficult to pipette are no match for the Multipette M4.

With the Multipette/Combitip system, volumes are dispensed using the positive displacement principle. The liquid is directly dispensed without an air cushion, ensuring the correct volume is always dispensed regardless of the density,

viscosity and volatility of the liquid. In addition to serial dispensing, the Multipette is also the perfect instrument that is able to go beyond the limitations of a standard pipette.



Innovations at a glance

- > Light and ergonomic
- > Perfectly shaped for large or small hands
- > Weight is well balanced for fatigue-free handling
- > Stress-free work via integrated step counter:
 - dispensing procedures can be continued error-free after an interruption or distraction
- > Central Combitip ejector: fully emptied Combitip can be easily ejected with one hand using the operating lever

Count on it! The clearly arranged and easy-to-read display guarantees stress-free and intuitive operation. In addition to the displayed dispensing volume, the step counter supports error-free filling, for example plates.

The integrated »Sleep« function switches off when the Multipette M4 is not being used, thus reducing energy consumption and saving battery life.

Technical specifications (information refers to the Multipette M4/Combitips advanced system)

| Combitips® advanced | Min./max. volume | Increment/step size | Max. dispensing volume | Volume | Systematic error | Random error |
|---------------------|------------------|---------------------|------------------------|----------|------------------|--------------|
| 0.1 mL | 1 µL | 1 µL | 20 µL | 2 µL | ±1.6% | ±3.0% |
| | 20 µL | | | ±1.0% | ±2.0% | |
| 0.2 mL | 2 µL | 2 µL | 40 µL | 4 µL | ±1.3% | ±2.0% |
| | 40 µL | | | ±0.8% | ±1.5% | |
| 0.5 mL | 5 µL | 5 µL | 100 µL | 10 µL | ±0.9% | ±1.5% |
| | 100 µL | | | ±0.8% | ±0.6% | |
| 1 mL | 10 µL | 10 µL | 200 µL | 20 µL | ±0.9% | ±0.9% |
| | 200 µL | | | ±0.6% | ±0.4% | |
| 2.5 mL | 25 µL | 25 µL | 500 µL | 50 µL | ±0.8% | ±0.8% |
| | 500 µL | | | ±0.5% | ±0.3% | |
| 5 mL | 50 µL | 50 µL | 1,000 µL | 100 µL | ±0.6% | ±0.6% |
| | 1,000 µL | | | ±0.5% | ±0.25% | |
| 10 mL | 100 µL | 100 µL | 2,000 µL | 200 µL | ±0.5% | ±0.6% |
| | 2,000 µL | | | ±0.5% | ±0.25% | |
| 25 mL | 250 µL | 250 µL | 5,000 µL | 500 µL | ±0.4% | ±0.6% |
| | 5,000 µL | | | ±0.3% | ±0.25% | |
| 50 mL | 500 µL | 500 µL | 10,000 µL | 1,000 µL | ±0.3% | ±0.5% |
| | 10,000 µL | | | ±0.3% | ±0.3% | |

Multipette® M4 ordering information

| Description | Order number |
|---|--------------|
| Multipette® M4 incl. holder (for wall and/or Eppendorf Pipette Holder System) | 4982 000 012 |
| Multipette® M4 Starter Kit, Multipette® M4, Combitips® advanced Box 2.0 with tips | 4982 000 314 |

Ordering information

| Combitips® advanced | Color code | Eppendorf Quality 100 pcs. (4 bags × 25 pcs.) | PCR clean 100 pcs. (4 reclos- able bags × 25 pcs.) | Biopur® 100 pcs., ind. blister-wrapped | Forensic DNA Grade 100 pcs., ind. 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 ¹⁾ | ■ red | 0030 089 472 | 0030 089 839 | 0030 089 685 | |
| 50 mL ¹⁾ | ■ light gray | 0030 089 480 | 0030 089 847 | 0030 089 693 | |
| ViscoTip® | | | | | |
| 10 mL | ■ orange | 0030 089 502 | | | |
| Accessories | | | | | |
| Adapter advanced | | | | | |
| 25 mL, autoclavable, 1 piece | ■ red | 0030 089 715 | | | |
| 25 mL, autoclavable, 7 pcs., individually wrapped | ■ red | | | 0030 089 731 | |
| 50 mL, autoclavable, 1 piece | ■ light gray | 0030 089 723 | | | |
| 50 mL, autoclavable, 7 pcs., individually wrapped | ■ light gray | | | 0030 089 740 | |
| Combitips® advanced Box 2.0 , for 8 Combitips® advanced (0.1 – 10 mL), Eppendorf Quality, 1 piece | | 0030 089 952 | | | |
| Combitips® advanced Assortment Pack , contains one Combitips® advanced sample of each size and Adapter advanced 25 and 50 mL, Eppendorf Quality | | 0030 089 936 | | | |

¹⁾ 4 boxes of 25 pcs. each. Each box containing one adapter.

Your local distributor: www.eppendorf.com/contact

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www.eppendorf.com/m4