eppendorf
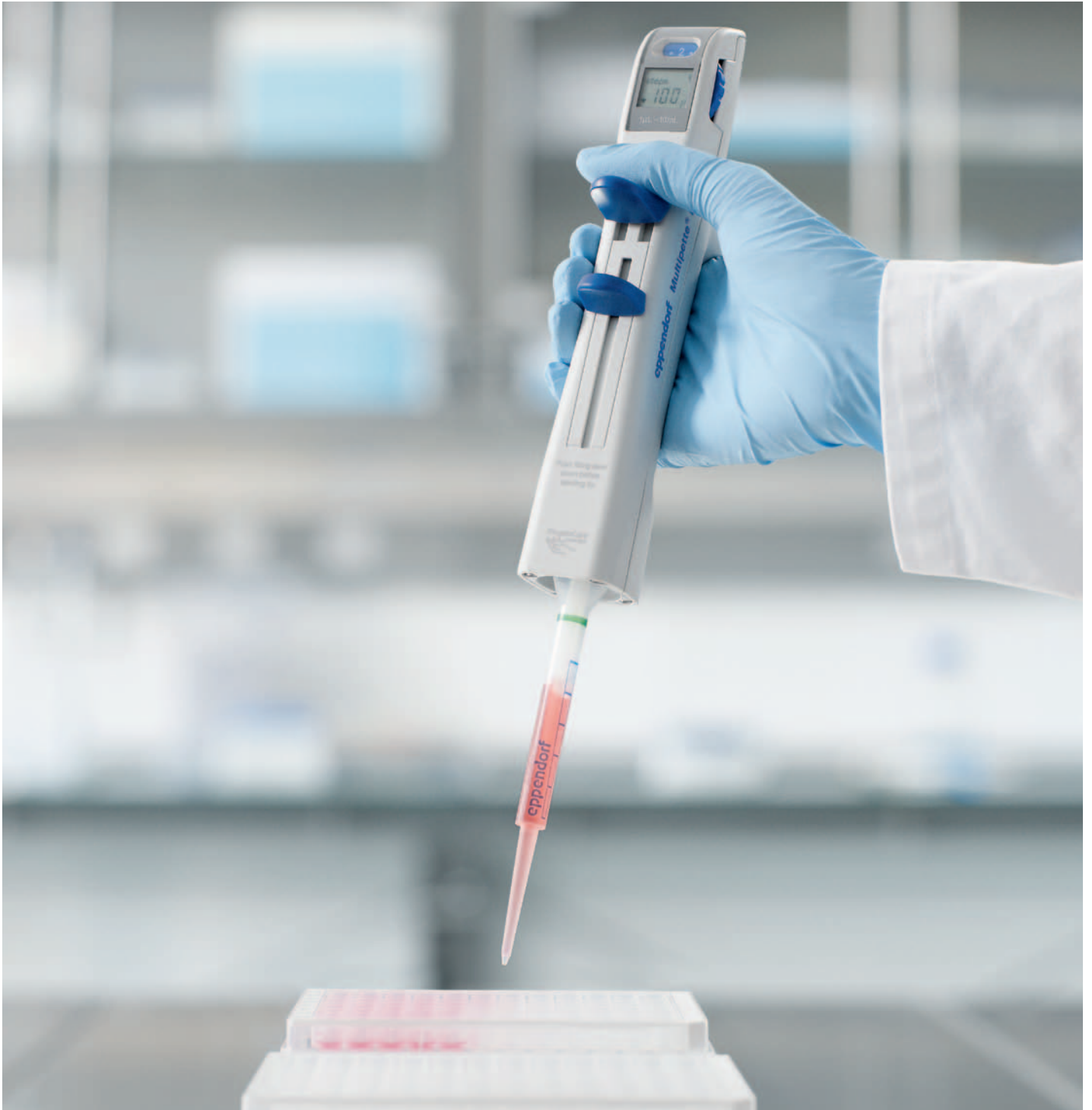
Count on it!

The new Eppendorf Multipette® M4: 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.

reddot design award
winner 2013

Volume selection dial
> 20 different volume settings
for every Combitip size
> Easy to reach and adjust
using your thumb

Hand rest
> Supports a
relaxed hand position
and ease of use

NEW! Motion sensor
> Switches off the Multipette M4
when not in use, and back
on with minimal movements
to save power and time

Combitip sensor
> Automatic Combitip recognition
and volume display

NEW! Step counter
> Displays the number of
executed dispensing steps

**Ergonomically shaped
operating lever**
> Dispenses the liquid
and ejects the Combitips®

NEW! Embedded RFID chip
> Contains relevant data
of the Repeater
(www.eppendorf.com/trackit)

**Ergonomically shaped
filling lever**
> For filling and emptying the
Combitips advanced®

NEW! Center Sleeve
> Supports stable Combitip-
Multipette connection

How it works

An Eppendorf Combitip advanced, 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 now 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 new step counter feature and shown in the easy-to-read display. After use, the Combitip advanced 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 volume range of 1 µL–10 mL. With 3 different purity grades (Eppendorf Quality, PCR sterile, Biopur®), you will always find the right tip for your application.

The new Eppendorf 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.

On 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 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%

Multipette® M4 ordering information

Description	Order number
Multipette® M4 incl. holder (for wall and/or pipette carousel)	4982 000.012
Multipette® M4 Starter Kit, Multipette® M4, Combitip Rack, Combitip assortment pack	4982 000.314
Eppendorf TrackIT consisting of software and RFID reader	3903 000.014

Ordering information for Combitips advanced and accessories

Combitips advanced®	Color coding	Eppendorf Quality box of 100 pcs. (4 bags x 25 pcs.)	PCR clean*1 box of 100 pcs., 4 bags (zip-lock) x 25 pcs.	Eppendorf Biopur®*2 box of 100 pcs. (individually 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	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*3	Red	0030 089.472	0030 089.839	0030 089.685
50 mL*3	Light gray	0030 089.480	0030 089.847	0030 089.693
Accessories				
25 mL adapter (1 pc.)	Red	0030 089.715		
25 mL adapter (7 pcs.)	Red			0030 089.731
50 mL adapter (1 pc.)	Light gray	0030 089.723		
50 mL adapter (7 pcs.)	Light gray			0030 089.740
Combitip Rack (for 8 Combitips advanced®, 0.1 mL–10 mL)		0030 089.758		
Combitips advanced Assortment pack (1 Combitip of each size, incl. adapters)		0030 089.936		

*1 PCR clean: batch tested and certified to be free of: human DNA, DNase, RNase, PCR inhibitors
*2 Biopur: batch tested and certified to be sterile and free of: human and bacterial DNA, DNase, RNase, PCR inhibitors, ATP, Pyogen
*3 4 boxes of 25 pcs. each. Each box contains an adapter.