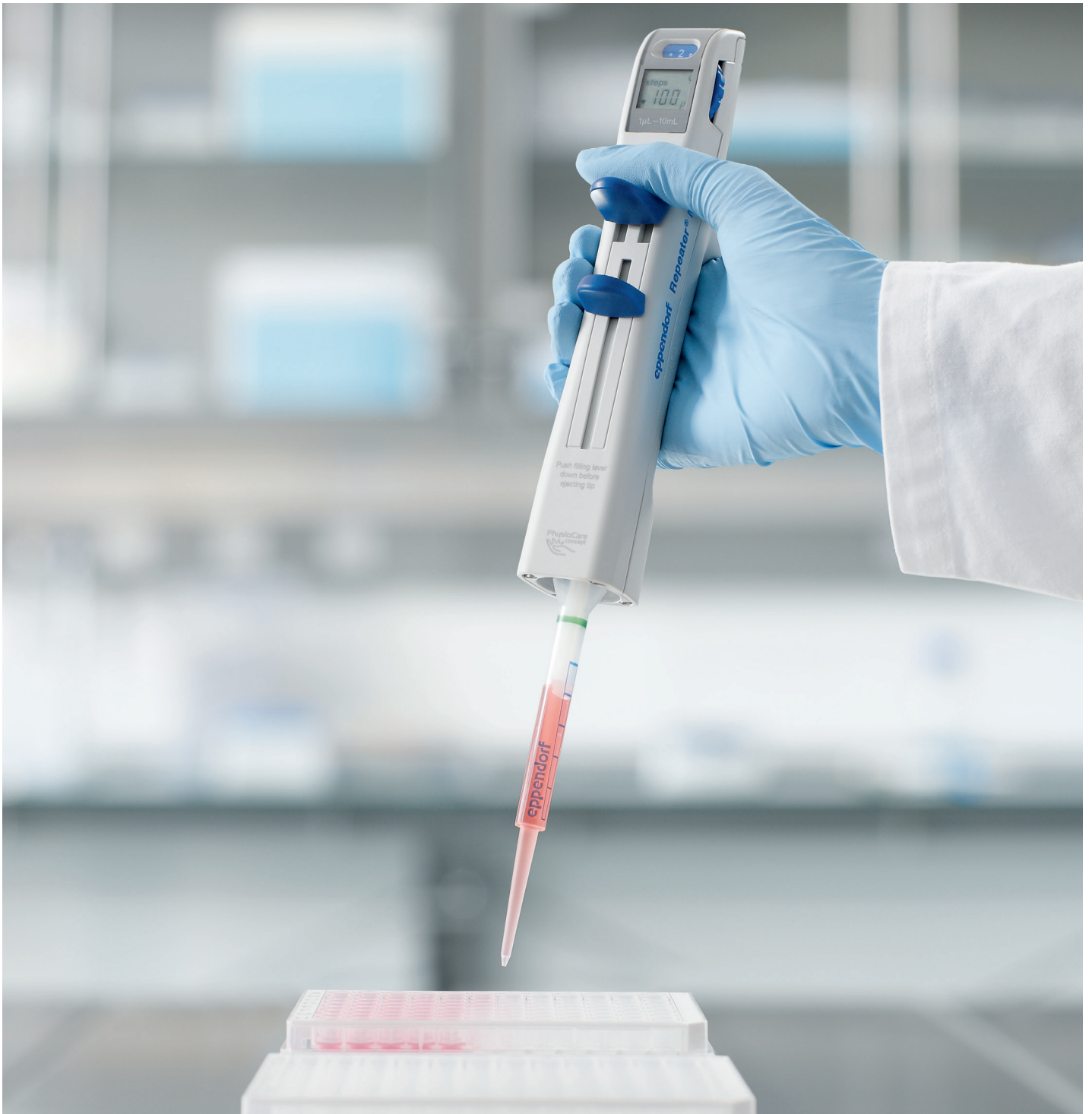


With integrated
step counter



Count on it!

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



Serial pipetting made easy

The Repeater 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 Repeater 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 Repeater 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
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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
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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 Repeater M4, offer a unique dispensing range of 1 µL–10 mL. With 5 different purity grades (Eppendorf Quality, PCR clean, sterile, Forensic DNA Grade, Biopur®), you will always find the right tip for your application.

Repeater® 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 Repeater M4.

With the Repeater/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 Repeater 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 Repeater M4 is not being used, thus reducing energy consumption and saving battery life.



Technical specifications (information refers to the Repeater 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%	

Repeater® M4 ordering information

Description	Order number
Repeater® M4 Starter Kit, Repeater® M4, Combitips® advanced Box 2.0 incl.tips	4982 000 322

Ordering information

Combitips® advanced	Color code	Eppendorf Quality	PCR clean	sterile	Biopur®	Forensic DNA Grade
		100 pcs. (4 bags x 25 pcs.)	100 pcs. (4 reclosable bags x 25 pcs.)	100 pcs., ind. wrapped	100 pcs., ind. blister-wrapped	100 pcs., ind. blister-wrapped
0.1 mL	white	0030 089 405	0030 089 766	0030 089 510	0030 089 618	
0.2 mL	light blue	0030 089 413	0030 089 774	0030 089 529	0030 089 626	
0.5 mL	violet	0030 089 421	0030 089 782	0030 089 537	0030 089 634	
1.0 mL	yellow	0030 089 430	0030 089 790	0030 089 545	0030 089 642	0030 089 855
2.5 mL	green	0030 089 448	0030 089 804	0030 089 553	0030 089 650	0030 089 863
5.0 mL	blue	0030 089 456	0030 089 812	0030 089 561	0030 089 669	0030 089 871
10 mL	orange	0030 089 464	0030 089 820	0030 089 570	0030 089 677	
25 mL ¹⁾	red	0030 089 472	0030 089 839	0030 089 588	0030 089 685	
50 mL ¹⁾	light gray	0030 089 480	0030 089 847	0030 089 596	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.