



DiluCult™ and DiluCult™ 2

Intended Use

DiluCult™ and DiluCult™ 2 automated gravimetric dilutor instruments are designed to facilitate work in a microbiological safety cabinet. They are low in height and have a removable drip tray.

Features of DiluCult™ and DiluCult™ 2 Instrument

- 3 modes of dispensing:
 - Fast: Fast flow with lower accuracy
 - Standard: Standard flow with standard accuracy
 - Accurate: Slow flow with optimal accuracy
- Authorized weight:
 - DiluCult™: 3000 g
 - DiluCult™ 2: 5000 g
- Robotic arm on DiluCult™ 2
- Digital display/control panel
- Easy calibration
- Booster kit (an additional pump) available
- Monitoring software available

DiluCult™ Instrument:

- Fixed dispensing arm
- Nozzle holder
- Bag holder
- Tubing holder
- Removable drip tray

DiluCult™ 2 Instrument:

- Robotic arm
- Nozzle holder
- Bag holder
- Protecting plate for nozzle
- Removable drip tray
- Tubing holder

Ordering Information

Cat Number	Instrument
5427530001	DiluCult™
5427600001	DiluCult™ 2
Related Product	
5623360001	Enrichment Sample Homogenizer

Operator and Equipment Safety

- Place the DiluCult™ and DiluCult™ 2 instruments upright on a clean, flat, stable, horizontal, dry, well-ventilated surface, away from any source of excessive heat and close to an easily accessible, properly grounded power supply outlet
- Do not expose the DiluCult™ and DiluCult™ 2 instruments to liquid
- Before cleaning, shut down the DiluCult™ and DiluCult™ 2 instruments and disconnect them from the power source
- Do not apply shock or excessive pressure to the weighing cell
- Ensure that the drip tray is correctly positioned
- Be sure that there are no visible defaults such as unstable zero or zero drift
- Do not put fingers in the pump. Fingers could be pinched



Specifications

Category	DiluCult™ Instrument	DiluCult™ 2 Instrument
Catalog number	5427530001	5427600001
Weighing range	0.1 g to 3,000 g	0.1 g to 5,000 g
Weighing accuracy	0 to 100 g: ± 0.05 g 100 g to 3,000 g: ± 0.1 %	0 to 100 g: ± 0.05 g 100g to 5,000 g: ± 0.1 %
Minimum weight for dilution	5 g	
Minimum weight for distribution	5 g	
Minimal weight of the sample	1 g	
Maximum authorized weight	3000 g	5000 g
Ideal functioning temperature for optimal accuracy of the weighing platform	-10 °C / + 40 °C	
Accuracy of the instrument from 1 to 100 g	± 0.05 g	
Accuracy of the instrument from 100 to 5,000 g	± 0.1 %	
Maximum weight without support	4,500 g	7,000 g
Dilution factor	1/2 to 1/99	
Dilution accuracy	> 98 %	> 99 %*
Dilution time for a 25 g sample diluted at 1/10	< 9 s**	
Dilution time for a 375 g sample diluted at 1/10	—	< 80 s**
Dispensing time for 90 mL	< 7 s **	
Dispensing time for 225 mL	< 10 s**	
Maximum number of pumps	2 integrated	
Dispensing/ distribution mode	Fast / Standard / Accurate	
Traceability	Printer® / Monitoring software (data export to Microsoft® Excel®, OpenOffice® Calc, LibreOffice® Calc, printer)	
Exported data	Sample weight / Total weight / Dilution factor / Dilution accuracy / Right or left pump + with monitoring software: Sample number / Name of operator / Date / Time	
Connection	RS232 output: To connect a printer USB output: To connect a computer Jack output: To connect a foot pedal	
Weight	12 kg	
Dimensions (width × depth × height)	37 × 44 × 38 cm 14.6 × 17.3 × 14.9 in.	37 × 48 × 38 cm 14.6 × 18.9 × 14.9 in.
Power source	100V~ to 240V~ 50 to 60 Hz	
In compliance with	ISO 7218 / ISO 6887-1 / FDA-BAM EI 61010-1: 2010	

For further details including distribution, maintenance and troubleshooting, see the **DiluCult™ and DiluCult™ 2 User Guide**.

To place an order or receive technical assistance

In Europe, please call Customer Service:

France: 0825 045 645
Germany: 069 86798021
Italy: 848 845 645
Spain: 901 516 645 Option 1
Switzerland: 0848 645 645
United Kingdom: 0870 900 4645

Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt, Germany

For other countries across Europe, please call: +44 (0) 115 943 0840

Or visit: [MerckMillipore.com/offices](https://www.merckmillipore.com/offices)

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[MerckMillipore/dilutionpreparation](https://www.merckmillipore.com/dilutionpreparation)

