

HAMILTON

Microlab PuriFY

Free Yourself With Simplified Clean-Ups



reddot winner 2025



Hands-Off Operation:

The Microlab PuriFY is easy to use and frees scientists to focus on innovative research and critical analysis.



Standardized Results:

Automating the clean-up process ensures consistency and reproducibility for all users.



Space-Saving:

Microlab PuriFY's compact design fits any lab setup, optimizing space without compromising performance.

Clean-Ups Made Easy

In the fast-paced world of science, enhancing efficiency and reliability is essential. The Microlab PuriFY offers a compact, standalone solution for nucleic acid bead clean-up for NGS library preparation and PCR reactions. Designed specifically for academic research and R&D laboratories in pharma and diagnostics, the Microlab PuriFY streamlines labor-intensive purification steps, saving valuable time and minimizing human error. This enables scientists to concentrate on their vital research. The compact and sustainable design incorporates Hamilton's Magpore Technology: a patented combination of consumable and magnetic bead clean-up, ensuring precise DNA clean-up with the reliability of automation, all while significantly reducing plastic waste.

Manual clean-ups with magnetic beads use up to eight times more pipetting tips, generating nearly a kilogram of plastic waste for every 96 samples purified.



Technical Specifications

Dimensions

430 mm x 442 mm x 430 mm (W x D x H)

Weight

ca. 33 kg

Communication

USB Types A and C, Ethernet, Wifi (dependent on configuration).
Wifi bands: 2.4 GHz (frequency range: 2400–2483.5 MHz),
5 GHz (frequency ranges: 5150–5250 MHz, 5250–5350 MHz,
5470–5725 MHz, 5725–5875 MHz)

Sample/Labware Identification

Samples identifiers import as .csv

Samples and target plate ID via external barcode scanner

Volume Specifications

Dispense volume: 10–250 µL

Minimum sample input volume: 30 µL

Maximum sample input volume: Clean-up: 300 µL,
Size Selection: 250 µL

Sample output volume (Clean-up, Size Selection): 10–60 µL

Dispensing: Trueness at 22 °C/RH 40% (15µL/250 µL): >95%;
Precision: >97%

Sample Size: 1–96

Manifold Decontamination by UV-irradiation

Intensity: > 50 µW/cm²

Wavelength: 265 nm

User Interface

Temperature and relative humidity notification

Audible and visual notifications

10" Touchscreen

System Monitoring

Sensor check during every start-up

Liquid level monitoring of waste and buffer capacities

Environmental Conditions

Operating Conditions

Voltage input instrument 24 VDC, 4 A

Voltage input xternal power supply 100–240 V AC, 50/60 Hz

Air temperature 15 °C to 35 °C

Relative humidity 15%* to 80%
(See Operator's Manual for details)

Altitude up to 2000 m / 6561 ft. above sea level

Place of operation For indoor use only

Transportation & Storage Conditions in Original Manufacturer's Packaging

Temperature –20 °C to 60 °C

Relative humidity Dry conditions, non-condensing.
(See Operator's Manual for details)

*At RH < 35%, microliter-scale droplets of elution buffer may form in the source wells during clean-up and size selection. This can reduce elution volumes but does not compromise the final nucleic acid yield.

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