

BioDrop μ LITE

Focus on micro-volume measurement performance



BioDrop μ LITE is the best choice for life scientists for whom speed and accuracy in micro-volume measurements are required rather than broad measurement range.



Product Overview

BioDrop μ LITE is the best choice for micro-volume measurement when you need speed without sacrificing accuracy or precision. With no moving parts, the unique in-built sample port offers unrivalled performance delivering a dsDNA detection limit of 1ng/ μ L. Because the pathlength doesn't change, the instrument provides excellent measurement reproducibility. Measurements made with the BioDrop μ LITE are also highly accurate because the pathlength is specified to +/- 5 μ m

BioDrop μ LITE has a large capacitive colour touchscreen with on-board software for data acquisition and analysis. Pre-programmed methods for DNA, RNA, oligos and proteins in the on-board software reduce the time from measurement to results. In addition, data generated using the on-board software can be stored internally or transferred using a USB memory stick. Alternatively, both the PC-only and standalone instruments can be controlled using a PC and BioDrop Resolution Software. Users can also choose an optional built-in thermal printer for maximum flexibility.

BioDrop μ LITE has an in-built sample port that is easy to use: simply pipette 0.5 μ L or more in the centre and measure. Cleaning the port is easy; simply wipe with a lint-free tissue and the μ LITE is ready to make the next measurement.

| dsDNA Measurement | Minimum Volume | Detection Limit | Maximum Concentration |
|--------------------|----------------|-----------------|-----------------------|
| BioDrop μ LITE | 0.5 μ L | 1ng/ μ L | 2,500ng/ μ L |

Best in class specifications!

- **Never have to calibrate** the in-built sample port uses no moving parts providing outstanding measurement performance
- **First of its kind** in-built sample port for micro-volume measurements
- **Fast operation** – switch on and measure a DNA sample in <4 seconds with only 4 screen touches
- Large, high-resolution, capacitive colour **touchscreen** on standalone instrument
- The in-built sample port is **easy to clean** and maintain
- **USB** connectivity for easy PC connection or data export
- BioDrop Resolution Life Science **PC software** for powerful analysis

BioDrop Resolution Life Science PC-Software

- Dedicated life science methods for determining the concentration and purity of DNA, RNA, oligos and protein as well as the ability to create and save customized methods
- Fast and easy to use with intuitive modules for quick measurements, wavelength scanning, quantitation and kinetics
- Pre-programmed with μ LITE pathlength for quick calculations
- Optional BioDrop Resolution CFR module for laboratories requiring full 21 CFR part 11 compliance.
- Familiarity of the latest Microsoft Windows® operating system.

Fresh thinking for micro-volume measurement



Technical Details

| | BioDrop μ LITE | BioDrop μ LITE PC |
|--|--|----------------------------|
| Display | 5.7" colour capacitive touchscreen | None |
| Minimum Volume (dsDNA) | 0.5 μ L | |
| Maximum Concentration (dsDNA) | 2,500ng/ μ L | |
| Detection Limit (dsDNA) | 1ng/ μ L | |
| Detector | 1024 element CCD array | |
| Light Source | Pulsed Xenon lamp with 3 year warranty | |
| Spectral Bandwidth | 5nm | |
| Wavelength Range | 190 – 1100nm | |
| Wavelength Accuracy | \pm 2nm | |
| Wavelength Reproducibility | \pm 1nm | |
| Stray Light | <0.5%T at 220 nm and 340 nm using NaNO ₂ | |
| Absorbance Range | -0.3 to 2.5A (- 0.3A to 50A: 10mm equivalent) | |
| Absorbance Accuracy | \pm 0.005A or 1% of the reading, whichever is the greater at 546nm | |
| Absorbance Reproducibility | \pm 0.003A (0 to 0.5A), \pm 0.007A (0.5 – 1.0A) | |
| Noise | 0.005A peak to peak 0.002A RMS | |
| Output | USB port for USB memory stick | USB port for PC connection |
| Power input | 90-250 V, 50/60 Hz, Max 50VA | |
| Dimensions | 420 x 260 x 185mm | |
| Weight | approx. 3kg | |
| Life Science PC Software | DNA, RNA, oligo, dye labelling, T _m calculation, direct UV and colorimetric protein methods | |
| Software Languages (on-board software) | English, Simplified Chinese, French, German, Spanish | English |

Ordering Information

| Part number | Description |
|-------------|--|
| 80-3006-51 | BioDrop μ LITE |
| 80-3006-52 | BioDrop μ LITE with built-in printer |
| 80-3006-50 | BioDrop μ LITE PC |
| 80-3006-70 | BioDrop Resolution CFR PC Software |

Distributors worldwide

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