

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 only 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

BioDrop Ltd
Tel: +44 (0)203 301 2504
Email: enquiries@biodrop.co.uk
Web: www.biodrop.co.uk

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