

Fresh Thinking for Micro-Volume Spectrophotometry







No Moving Parts

Only Biodrop Delivers Maintenance-Free Performance for a Lifetime of Reliable Results

Direct Sampling

BioDrop's unique in-built sample port is dedicated to micro-volume measurement. The port is easy to use: simply pipette as little as $0.5~\mu L$ of sample and measure. Cleaning the port is easy too Just wipe with lint-free tissue to reduce sample carryover to undetectable amounts.

The in-built sample port uses no moving parts. This means that the instrument provides excellent reproducibility without the need to recondition or calibrate. Measurements are also highly accurate because the pathlength of the port is highly specified to +/- 5 μ m. BioDrop also looks at the purity of your sample and flags up any issues you may need to address.

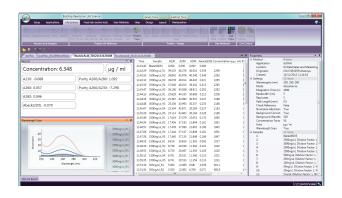


Micro-Volume Specifications of the BioDrop In-Built Sample Port			
Pathlength (mm)	0.5		
Pathlength Accuracy (µm)	+/- 5		
Minimum Volume (μL)	0.5		
Maximum Concentration dsDNA (ng/μL)	2,500		
Detection Limit (ng/μL)	1		

Intelligent Software, Powerful Analysis

BioDrop instruments feature easy-to-use on-board software via a large, high resolution colour touchscreen. Pre-programmed applications in both on-board and PC software make it quick and easy to set up, choose methods and measure samples.

The powerful BioDrop Resolution Life Science PC Software package is included with all instruments. Data can be transferred from the instrument using a USB flash drive. Alternatively, the instrument can be operated using a PC via a USB connection. A built-in printer can be selected for a complete standalone solution within a small footprint.



- BioDrop Resolution Life Science PC Software offers computer control, pre-programmed applications and powerful custom analysis.
- When compliance is critical, a full 21 CFR Part 11 compliant version is available.

IQ/OQ Available

Due to the unique nature of the BioDrop microvolume port, Biochrom's trained engineers use both solid and liquid reference materials when performing an IQ/OQ assessment. These reference materials are reliable, stable and National Institute of Standards and Technology (NIST) traceable, which enables evidence of quality control to be documented according to ISO/IEC 17025.

Accurate Micro-Volume Results in Seconds, for the Confidence to Do More

Direct Sampling

Whatever your application — PCR, QPCR, siRNA or DNA microarray — the BioDrop range of instruments deliver rapid, simple and accurate measurement of your DNA, RNA, oligo and protein concentration and purity from just $0.5~\mu L$ of sample. BioDrop is flexible when you require it, fast when you need it, and easy to use in every case.



Accurate micro-volume results in seconds.
What can you do with a Drop?

Robust and Sustainable

- Long life Xenon flash lamp
- Low energy usage and screen saver mode
- No moving parts no need for regular calibrations

Pre-Programmed Methods

- DNA, RNA, oligo and proteins
- Absorbance concentrations AND a comprehensive fluorescent dye menu for extra important samples
- Method creator for ultimate flexibility
- Additional functionality with the cuvette port option scanning, multiple wavelengths, kinetics, OD600

Micro-Volume Sample Port

- Fixed pathlength no need for calibration
- Wipe-clean design no sample cross-over
- Volumes from 1 to 5 µL even if pipetting is slightly inaccurate, your results won't be

Optimal Performance

- BioDrop instruments are accurate, robust and fast results in <4 seconds
- Sensitive limit of detection

 highly accurate and
 reproducible results
- Large, high-resolution colour touchscreen for powerful on-board analysis

Technical Details

Applications	BioDrop DUO+	BioDrop μLITE+
Wavelength Range	190 nm to 1100 nm	
Wavelength Accuracy	±2 nm	
Wavelength Reproducibility	±1 nm	
Spectral Bandwidth	5 nm	
Stray Light	<0.5%T @ 220 nm Nal, <0.5%T @ 340 nm NaNO2	
Photometric Range	-0.3A to 2.5A, 0 to 199%T	
Photometric Accuracy	±0.01A + 1.5% of the reading @ 546 nm	
Photometric Reproducibility	±0.003A (0 to 0.5A), ±0.007A (0.5 to 1.0A)	
Noise	0.005A peak to peak, 0.002A RMS	
Power Input	120 to 240V~ 50/60Hz, 40VA Max	
Dimensions	Height 190 mm x Width 280 mm x Depth 410 mm (521 mm with printer)	
Weight	Approx. 3.55 kg (4 kg with printer)	
Software	Resolution Software (included)	
Life Science Applications	DNA, RNA, Oligo, Fluorescent Dye, Tm Calculation, Protein Dye, Protein UV and Colorimetric Protein Methods	
Applications	Single Wavelength, Concentration, Wavescan, Kinetics, Standard Curve, Substrate, Equation Editor	

Typical Applications

Applications	Typical Concentration	BioDrop DUO+	BioDrop µLITE+
Sequencing	125 ng/20 μl (6 ng/μl)	125 ng/20 µl (6 ng/µl) ✓	
Next Generation Sequencing)	10 ng/µl ✔		~
Transfections	5 to 30 µg/100µl 50 to 500 ng/µl	V	~
DNA Vaccines	0.5 to 2 mg		~
PCR	2 ng/µl	,ı	
qPCR	200 ng/100 µl (2 ng/µl)		~
DNA Microarray	>2 µg	V	~
siRNA	7.5 µg/µl	V	~
Protein Crystallography	50 ng/μl	V	~

Ordering Information

ORDER#	PRODUCT	DESCRIPTION
80-3006-68	BioDrop DUO+	Spectrophotometer with 10mm cuvette holder and 0.5mm micro-volume port
80-3006-69	BioDrop DUO+ with built-in printer	Spectrophotometer with 10mm cuvette holder and 0.5mm micro-volume port and built-in printer
80-3006-55	BioDrop μLITE+	Spectrophotometer with 0.5 mm micro-volume port
80-3006-56	BioDrop µLITE+ with built-in printer	Spectrophotometer with 0.5 mm micro-volume port and built-in printer
80-3006-70	BioDrop Resolution CFR Software	Full 21CFR Part 11 compliant PC control software
80-3007-77	BioDrop IQ/OQ	Document and DNA standard





Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.