

# BioDrop $\mu$ Lite+ Microvolume Spectrophotometer

## Technical Details

Applications	BioDrop DUO+	BioDrop $\mu$ LITE+
Wavelength Range	190 nm to 1100 nm	
Wavelength Accuracy	$\pm 2$ nm	
Wavelength Reproducibility	$\pm 1$ nm	
Spectral Bandwidth	5 nm	
Stray Light	<0.5%T @220 nm NaI, <0.5%T @340 nm NaNO <sub>2</sub>	
Photometric Range	-0.3A to 2.5A, 0 to 199%T	
Photometric Accuracy	$\pm 0.01A + 1.5\%$ of the reading @546 nm	
Photometric Reproducibility	$\pm 0.003A$ (0 to 0.5A), $\pm 0.007A$ (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, T <sub>m</sub> 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 $\mu$ LITE+
Sequencing	125 ng/20 $\mu$ l (6 ng/ $\mu$ l)	✓	✓
Next Generation Sequencing)	10 ng/ $\mu$ l	✓	✓
Transfections	5 to 30 $\mu$ g/100 $\mu$ l 50 to 500 ng/ $\mu$ l	✓	✓
DNA Vaccines	0.5 to 2 mg	✓	✓
PCR	2 ng/ $\mu$ l	✓	✓
qPCR	200 ng/100 $\mu$ l (2 ng/ $\mu$ l)	✓	✓
DNA Microarray	>2 $\mu$ g	✓	✓
siRNA	7.5 $\mu$ g/ $\mu$ l	✓	✓
Protein Crystallography	50 ng/ $\mu$ l	✓	✓

## 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 $\mu$ LITE+	Spectrophotometer with 0.5 mm micro-volume port
80-3006-56	BioDrop $\mu$ LITE+ 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
80-3006-77	BioDrop IQ/OQ	Document and DNA standard