



NANO SPECTROPHOTOMETER BJJN-4501

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MICRO-VOLUME SPECTROPHOTOMETER



Microscale sample testing; only 0.5-2 μL is required to complete the test, with a minimum sample volume of 0.5 μL . Supports both ultramicro and cuvette measurement.

Wide detection range, up to 500 times that of a traditional spectrophotometer.

Most samples can be tested directly without dilution.

Direct testing with no warm-up required; suitable for container testing and routine testing.

Full wavelength coverage of 190-1100 nm with 1 nm accuracy; automatic wavelength scanning from 190-900 nm.

Compact and portable design, suitable for on-site testing.

2-in-1 functionality with support for OD600 detection, suitable for measuring the growth density of cells, bacterial cultures, yeast, and other samples.

SPECIFICATIONS

Model	BJN-4501
Wavelength Range	190-900nm
Spectral Bandwidth	
Wavelength Accuracy	1nm
Minimum Sample Size	0.5 μL
Optical Distance	0.02 / 0.05 / 0.1 / 0.5 / 1 mm (five detection light paths, automatic switching)
Wavelength Resolution	1 nm
Absorbance Accuracy	$\pm 1\%$ (0.76 at 260 nm)
Absorbance Resolution	0.002 Abs (at 1 mm optical distance)
Absorbance Range	0-750 A (10 mm equivalent)
OD600 Absorbance Range	0-4.000 Abs
OD600 Absorbance Stability	[0, 3) $\leq 0.5\%$; [3, 4) $\leq 2\%$
OD600 Absorbance Repeatability	[0, 3) $\leq 0.5\%$; [3, 4) $\leq 2\%$
Nucleic Acid Detection Range	1.5-37,500 ng/ μL (dsDNA); lower limit 1.5 ng/ μL
Protein Detection Range	0.05-1110 mg/mL (BSA); 0.03-540 mg/mL (IgG)
Sample Pedestal Material	304 Stainless Steel and Quartz
Measurement Time	<5 s
Detector	2048-unit CMOS linear array sensor
Light Source	Xenon Flash Lamp
Dimensions (W x D x H)	310 x 221 x 176 mm
Alt Name	Micro-Volume spectrophotometer

FEATURES

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and other samples.

Built-in thermal printer with printing capability; can store approximately 100,000 sets of detection data and supports data export through a USB interface.

Supports intelligent automatic measurement without the need to press a key, simplifying the detection process.



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com