

Nano Stick – Micro-Volume Accessory for Determination of DNA and Protein Concentration by UV-Vis Spectrophotometry



FEATURES OF THE NANO STICK

- Undiluted measurement of DNA/protein samples in 1 μ L to 2 μ L volume
- Simple, reproducible loading
- Quick cleaning with no sample carry over
- Fits majority of standard UV-Vis spectrophotometers

The Nano Stick is a precision UV-Vis accessory designed for quick and reproducible measurements of biological samples. The accessory matches the size and format of standard 10 mm UV-Vis cuvettes and can be easily mounted in the cell holders of most bench-top UV-Vis spectrophotometers.

The Nano Stick is available in 8.5 mm and 15 mm z-height configurations and offers two pathlength options – 0.2 mm for concentrated samples and 0.5 mm for more routine applications. In addition, the product is available with two optical geometries – a single channel assembly that requires blank and the sample to be loaded and measured sequentially and a dual channel version with top and bottom sampling areas allowing blank and sample loading at the same time. For the dual channel version the complete measurement is performed by simply “flipping” the accessory in the cuvette holder. The 0.2 mm Nano Stick is available in black and red. The 0.5 mm version offers a selection of five colors. Each accessory comes complete with a loading tray and bubble checker.

NANO STICK SPECIFICATIONS

Pathlength	0.5 mm	0.2 mm
Physical Dimensions	12.5 x 12.5 x 60 mm (WDH)	
Beam Height (Z-Dimension)	15 or 8.5 mm	
Minimum Sample Volume	2 μ L	1 μ L
DNA Detection Limit	1.1 ng/ μ L	1.5 ng/ μ L
DNA Maximum Concentration	3000 ng/ μ L	7500 ng/ μ L
DNA Reproducibility at 100 ng/ μ L	\pm 1.0 ng/ μ L	\pm 1.5 ng/ μ L
DNA Reproducibility at 1000 ng/ μ L	\pm 3.0 ng/ μ L	\pm 5.0 ng/ μ L
Protein Detection Limit	0.06 mg/ml	0.08 mg/ml
Protein Maximum Concentration	100 mg/ml	100 mg/ml
Protein Reproducibility at 2 mg/ml	\pm 0.02 mg/ml	\pm 0.04 mg/ml
Protein Reproducibility at 10 mg/ml	\pm 0.05 mg/ml	\pm 0.07 mg/ml

ORDERING INFORMATION

Nano Stick – Micro-Volume Accessory

PART NUMBER	DESCRIPTION
162-0600	Single Port, 0.2 mm, Z-height 15 mm, Black
162-0601	Single Port, 0.2 mm, Z-height 15 mm, Red
162-0602	Single Port, 0.2 mm, Z-height 8.5 mm, Black
162-0603	Single Port, 0.2 mm, Z-height 8.5 mm, Red
162-0604	Single Port, 0.5 mm, Z-height 15 mm, Black
162-0605	Single Port, 0.5 mm, Z-height 15 mm, Blue
162-0606	Single Port, 0.5 mm, Z-height 15 mm, Red
162-0607	Single Port, 0.5 mm, Z-height 15 mm, Gold
162-0608	Single Port, 0.5 mm, Z-height 15 mm, Silver
162-0609	Single Port, 0.5 mm, Z-height 8.5 mm, Black
162-0610	Single Port, 0.5 mm, Z-height 8.5 mm, Blue
162-0611	Single Port, 0.5 mm, Z-height 8.5 mm, Red
162-0612	Single Port, 0.5 mm, Z-height 8.5 mm, Gold
162-0613	Single Port, 0.5 mm, Z-height 8.5 mm, Silver
162-0614	Dual Port, 0.5 mm, Z-height 15 mm, Black
162-0615	Dual Port, 0.5 mm, Z-height 15 mm, Blue
162-0616	Dual Port, 0.5 mm, Z-height 15 mm, Red
162-0617	Dual Port, 0.5 mm, Z-height 15 mm, Gold
162-0618	Dual Port, 0.5 mm, Z-height 15 mm, Silver
162-0619	Dual Port, 0.5 mm, Z-height 8.5 mm, Black