

Nano-MD with Nano Stick

Optimized UV-Vis Spectrophotometer for measurement of micro volume biological samples

Nano-MD with Nano Stick is designed for accurate micro-volume measurements to quantify DNA and Protein for life science. Nano Stick, developed by SCINCO, is the ideal sampling device for small sample volumes as low as 0.5 ul.

Features



Every life science lab is unique and requires measurements of a variety of samples. Having Nano-MD, a full-featured and diode array-based spectrophotometer in your laboratory provides flexibility for routine and fast assays. Nano-MD and its various accessories including Nano Stick, Multi-Stick and standard cuvette cell holder, meet the needs of laboratory scientist looking for innovation and enhancement in their life science research.

Small Volume Sample Measurements

Nano Stick and Multi-Stick are designed for accurate micro-volume measurements to quantify DNA and Protein for life science. The Multi-Stick is useful to measure multi samples (up to 8 samples) at a single sampling.

Nano Stick and Multi-Stick make the process simple, quick and easy to clean. By reducing sample volume and providing greater accuracy, Nano Stick and Multi-Stick offer a complete solution to analyze DNA, RNA and protein.

- First innovative creation for the life science
- Superior accuracy and reproducibility
- Sample size as small as 0.5 μ l, conserves precious samples
- No sample dilution
- Easy to use and clean



Nano Stick



Multi-Stick



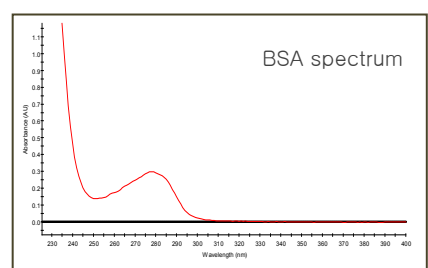
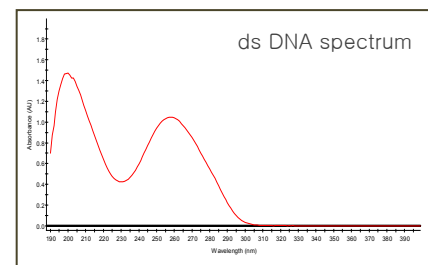
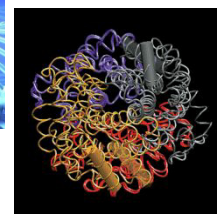
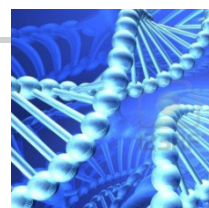
Nano Stick sampling



Multi-Stick sampling

Specifications

Nano-MD	
Wavelength Range	190 ~ 1100 nm Typical 200 ~ 900 nm Measurement
Wavelength Resolution	2 nm
Light Sources	Xenon flash lamp
Detector	Photo Diode Array
Wavelength Accuracy	±1 nm (Holmium Oxide Solution)
Wavelength Reproducibility	< 0.02 nm (NIST 2034)
Photometric Range	-3.0 ~ +3.0 AU
Photometric Accuracy	± 0.01 AU with 60 ppm Potassium Dichromate ± 0.005 AU with 0.5 AU NIST 930e ± 0.01 AU with 1.0 AU NIST 930e
Photometric Noise	< 0.002 at 300 nm
Photometric Stability	< 0.002 AU/h at 0 AU, 300 nm
Photometric Reproducibility	< 0.002 at 0.5 AU with glass filter < 0.002 at 1.0 AU with glass filter
Stray Light	< 0.03%T at 340 nm (NaNO ₂) < 0.05%T at 220 nm (NaI) < 1.00%T at 198 nm (KCl)
Connectivity	USB
Dimensions	340(W) x 320(D) x 115(H) mm
Weight	6.6 Kg
Power Requirements	100 - 230 V a.c., @50/60Hz



Nano Stick and Multi-Stick with Nano-MD Specifications

	Nano Stick-S		Multi-Stick
	0.5 mm	0.2 mm	0.5 mm
Pathlength	0.5 mm	0.2 mm	0.5 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 µl	0.5 µl	2 µl
DNA Detection Limit	1.1 ng/µl	1.5 ng/µl	4 ng/µl
DNA Maximum Concentration	3000 ng/µl	7500 ng/µl	3000 ng/µl
DNA Reproducibility at 100 ng/µl	±1.0 ng/µl	±0.8 ng/µl	±1.5 ng/µl
DNA Reproducibility at 1000 ng/µl	±3.0 ng/µl	±4.0 ng/µl	±1.5%
Protein Detection Limit	0.06 mg/ml	0.08 mg/ml	0.06 mg/ml
Protein Maximum Concentration	100 mg/ml	100 mg/ml	100 mg/ml
Protein Reproducibility at 2 mg/ml	±0.02 mg/ml	±0.03 mg/ml	±0.05 mg/ml
Protein Reproducibility at 10 mg/ml	±0.05 mg/ml	±0.04 mg/ml	±2.2%

- Performance measured in Nano-MD UV-Vis spectrophotometer.
- Protein(BSA) measured using A280 direct UV method.
- 10 replicates, SD=ng/ul or mg/ml, CV=%

Copyright© 2014 SCINCO CO., LTD. All rights reserved. All configurations and specifications are subject to change without notice.



Website: www.scinco.com
E-mail: scinco@scinco.com

SCINCO

627, Bongeunsa-ro, Gangnam-gu, Seoul 135-873 Korea
Tel: +82-2-2143-8200 Fax: +82-2-2143-8355

R&D Center

746, Daedeok-daero, Yuseong-gu, Daejeon 305-348 Korea
Tel: +82-42-610-7400 Fax: +82-42-610-7500