

## nanoCell Accessory

Sub-microliter to microliter analysis using Thermo Scientific spectrophotometers

The nanoCell accessory, designed for use with any Thermo Scientific UV-Visible spectrophotometer, offers unique microliter and sub-microliter analysis capabilities. This innovative configuration allows you to obtain the maximum amount of information from the smallest sample. The nanoCell is useful for laboratories performing assays for nucleic acids, RNA/DNA, and protein concentrations.



The nanoCell accessory used with the BioMate 3 spectrophotometer for determining DNA concentrations. Both 0.2 mm and 1.0 mm pathlength adapters are available for accurate measurements.



### Fast, Convenient, and Easy to Use

There is no need for special software, a computer, or alignment. Simply insert the nanoCell accessory into the spectrophotometer, load your sample into the quartz loading area, and start measuring. Conveniently exchange the removable accessory to switch between large and small volume measurements.

### Traceable, Compliant Performance Verification

Ensure Pharmacopoeia compliance and test your spectrophotometer with traceable standards. Verify your nanoCell results at your convenience with traceable standards for resolution, wavelength and photometric accuracy, and stray light. Stop wondering about your data quality, verify.

### Stop Diluting — Measure Accurately

Analyze concentrated solutions without dilution. The interchangeable 0.2 mm and 1.0 mm pathlengths allow for greater accuracy and sensitivity over a wide concentration range, identical to preparing 10- or 50-fold dilutions.

### Ultimate Sampling Flexibility

All assays are not created equal and small volume measurements are not always ideal. Stop limiting yourself to small volumes and do your BCA, Bradford, Lowry, and cell growth assays in larger volume or disposable cells.

### Applications

- Nucleic Acids
- Microarray
- Proteins
- General Spectrophotometry

Specifications	nanoCell + BioMate 3
Wavelength Range (nm):	190-1100
DNA Detection Range:	2.0 – 4,500
DNA Lower Quantitation Limit:	4.0 ± 0.3 ng/μL
Local Instrument Control:	Available
Measurement Time:	1 second
Lamp:	Xenon
Detector:	Silicon Photodiode

Dilution Factor	Concentration (ng/μL)	Standard Deviation (15 Measurements)	Measurement Range (± mean) (ng/μL)
1.0	4289.52	10.77	16.50
0.4	1743.54	7.56	16.22
0.267	1165.00	3.25	6.55
0.2	853.68	2.72	4.97
0.1	414.81	0.81	1.65
0.04	171.57	0.31	0.63
0.02	79.82	0.29	0.66
0.005	21.70	0.20	0.47
0.0025	9.12	0.15	0.33

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