

SPECIFICATIONS

Zetasizer Pro



PARTICLE SIZE AND MOLECULAR SIZE

Measurement principle:	Dynamic light scattering (Non-Invasive Back-Scatter - NIBS)
	Dynamic light scattering (13°, 173°)
Measurement angle:	173°, 13° ¹
Measurement range:	Diameter: 0.3 nm - 10 µm ²
Minimum sample volume:	12 µL
Concentration range:	Minimum sample concentration³: NIBS (173°): 0.1 mg/mL
	Forward angle (13°): 10 mg/mL
	Side angle (90°): N/A
	MADLS: N/A
	Maximum sample concentration^{4 5}: 40% w/v

ZETA POTENTIAL

Measurement principle:	Mixed-mode measurement, phase analysis light scattering (M3-PALS)
Size range:	3.8 nm - 100 µm (diameter) ²
Minimum sample volume:	20 µL ⁶
Concentration range:	10 mg/mL ³ - 40% w/v ^{4 5}
Sample conductivity range:	Maximum: 260 mS/cm Accuracy: ± 10%

SPECIFICATIONS

Zetasizer Ultra

SYSTEM

Detector:	Avalanche photodiode
Temperature control range:	0°C - 120°C ⁷
Dimensions (W, D, H):	322 mm x 565 mm x 245 mm
Weight:	19 kg
Power:	AC 100-240 V, 50-60 Hz, 4.0 A
Power consumption:	Max. 100 W, 45 W typical
Ambient conditions:	+10°C to +35°C (+50°F to +95°F) 35% - 80% RH (non-condensing)
Interface:	USB 2.0 or higher

NOTES

Notes:	<ol style="list-style-type: none">1. Water as sample dispersant;2. Peak mode range (diameter) 0.6 nm - 10 µm; sample & sample preparation dependent;3. Measured using 15 kDa protein;4. Sample-dependent;5. Measured using bile acid;6. Using diffusion barrier method;7. Temperature accuracy 0.1°C at 25°C, 0.2°C at 0°C, 0.5°C at 90°C, 2.5°C at 120°C
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