

Varioskan ALF Multimode Microplate Reader

Thermo Scientific™ Varioskan™ ALF Multimode Microplate Reader—performance specifications

Photometry	
Light source	Xenon flash lamp
Wavelength selection	Monochromator
Wavelength range	200–1,000 nm
Bandwidth	2.5 nm
Wavelength setting resolution	1 nm
Wavelength accuracy	±2 nm
Stray light, at 230 nm	<0.05%
Linearity (absorbance), at 450 nm	96-well plate: 0–2.5 Abs, 2.0%
Accuracy (absorbance), at 450 nm	96-well plate: For 0–2.0 Abs: ±(1.0% + 0.003 Abs) For 2.0–2.5 Abs: ±2.0%
Precision (absorbance), at 450 nm	SD <0.003 Abs or CV <1.0%, whichever is greater
DNA sensitivity, at 260 nm*	96-well half area plate: <1 ng/μL
Turbidimetric sensitivity*	96-well plate: <5 formazin turbidity units (FTUs)
Measurement speed**	96-well plate: • Fast mode: ≤10 seconds • Precision mode: ≤26 seconds
Spectral scanning speed	Fast mode: ≤16 seconds from 200–1,000 nm with 1 nm steps Precision mode: ≤200 seconds from 200–1,000 nm with 1 nm steps
Fluorometry	
Dynamic range	≥6 decades
Sensitivity*	Black 384-well plate: 0.35 fmol/well fluorescein
Wavelength	Excitation 200–710 nm Emission 210–720 nm
Wavelength selection	Filter wheels with three factory filter pairs and five optional filter positions
Factory-installed filter pairs [wavelength (nm)/FWHM† (nm)]	Coumarin family filter pair: • Excitation 345/25 • Emission 450/40 Fluorescein family filter pair: • Excitation 485/15 • Emission 525/15 Resorufin family filter pair: • Excitation 555/15 • Emission 615/45
Dual label measurement speed	<1 second

* Sensitivity specification values that represent the median of observed factory-tested values.

** Minimum kinetic interval time from A1 back to A1.

† FWHM: full width at half maximum.

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