

Accessories Specifications ScanDrop²

Technical Specifications for Individual Accessories

Detailed specification of each individual accessory available for the ScanDrop² spectrophotometer

	Standard cuvette	Butterfly Cuvette	CHIPCUVETTE
Path length	Up to 10 mm	0.5 mm	1.0 mm and / or 0.1 mm
Absorbance range	0.005 – 2.5	0.01 – 1.5	0.01 – 1.5
Baseline deviation in absorbance (230 – 600 nm)	± 0.005	± 0.005	± 0.01
Baseline noise in absorbance (500 nm, RMS)	± 0.002	± 0.002	± 0.005
Zero point of transmission (230 – 600 nm)	± 0.2 % T	± 0.2 % T	± 0.4 % T
Photometric accuracy in absorbance (at 546 nm, Abs. ~ 1)	± 0.025	n. a. **	± 0.04
Photometric reproducibility in absorbance (257 nm, K ₂ Cr ₂ O ₇ UV 600)	n. a. *	± 0.04	± 0.02

*concentration of standard out of the given measuring range

**no suitable standard available

Accuracy for the Determination of DNA Concentration

DNA concentration*	Standard cuvette	Butterfly Cuvette	CHIPCUVETTE (1.0 mm)
500 ng/μL	n. a. **	± 0.03 at Abs. 0.476	± 0.07 at Abs. 1
50 ng/μL	± 0.025 at Abs. 1	± 0.02 at Abs. 0.043	± 0.02 at Abs. 0.1
15 ng/μL	± 0.015 at Abs. 0.3	n. a. **	n. a. **

*here it refers to dsDNA standard(s)

**no suitable standard available

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