

TrayCell: Average Detection Range and Required Sample Volumes for Undiluted Nucleic Acid Samples (exemplary for typical Benchtop-Photometer)

	Factor	2 mm Lid (Factor 5) [ng/μl]	1 mm Lid (Factor 10) [ng/μl]	0.2 mm Lid (Factor 50) [ng/μl]	0.1 mm Lid (Factor 100) [ng/μl]	Total Detection Range [ng/μl]
dsDNA	50	6 - 425	13 - 850	63 - 4250	125 - 8500	6 - 8500
ssDNA	37	5 - 315	9 - 629	46 - 3145	93 - 6290	5 - 6290
RNA	40	5 - 340	10 - 680	50 - 3400	100 - 6800	5 - 6800
Oligo	33	4 - 281	8 - 561	41 - 2805	83 - 5610	4 - 5610

Corresponding Absorbance Value Limits for A 260

0,025 to 1,7 Abs	0,025 to 1,7 Abs	0,025 to 1,7 Abs	0,025 to 1,7 Abs
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Required Sample Volume

6 - 10 μl	3 - 5 μl	0,7 to 4 μl	0,5 to 3 μl
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