

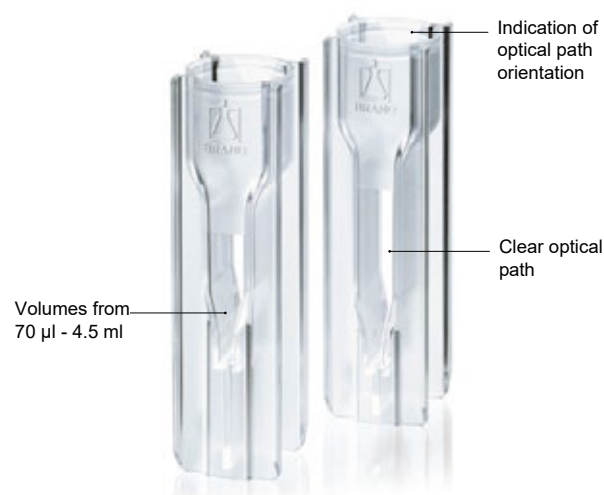


Cuvettes



- ✓ Grouped by mold cavity number
- ✓ For photometric and spectroscopic analyses
- ✓ For measurements in the UV/VIS range

In many fields, plastic disposable cuvettes for the UV/VIS range can replace expensive, sensitive glass or quartz cuvettes. Time-consuming expensive cleaning processes are eliminated, and the dangers of sample mixing and contamination are reduced to a minimum.



Applications

- + Extinction measurements
- + Fluorescence spectroscopy
- + Determining nucleic acid and protein concentrations

Features

- + Made of PS, PMMA and UV polymer
- + Optical pathlength 10 mm
- + Compatible with a wide variety of photometers+ With 2 or 4 optical windows
- + For volumes between 70 µl and 4.5 ml

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User information

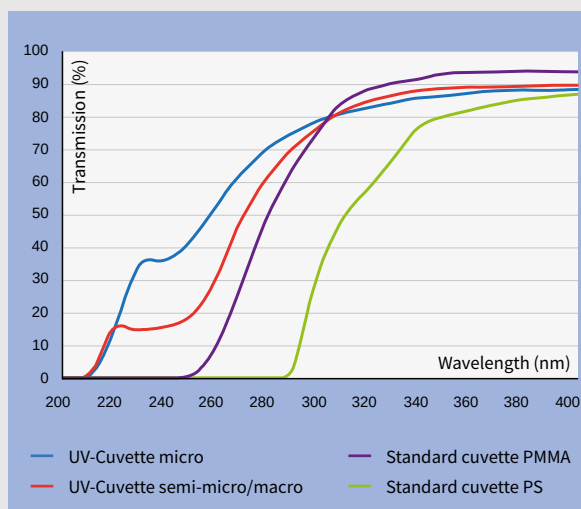
Overview of chemical resistance and transmission properties of different cuvettes

Chemical resistance* of plastic cuvettes

Substance	PS	PMMA	UV-Cuvette
Acetic acid, 100%	-	-	+
Acetone	-	-	+
Ammonia	+	+	+
Benzaldehyde	-	-	+
Butanone	-	-	+
Chloroform	-	-	-
Dioxane	-	-	+
DMF	-	-	+
Ethyl acetate	-	-	+
Hexane	-	+	-
Hydrochloric acid, 36%	+	-	+
Hydrofluoric acid, 10%	+	+	+
Isopropanol	+	+	+
Nitric acid, 65%	-	-	+
Sodium hydroxide	+	+	+

* Short time resistance, 30 min. Longer-term storage of these chemicals should be confirmed by the user. Request a free sample.

Transmission curves of different cuvettes



To achieve reproducible results: Before the actual measurement, always determine the blank value for the cuvette, and determine the linear range of measurement by means of a calibration curve.

Overview table

Cuvette type	Filling volume min.	Filling volume max.	Dimensions window (w x h)	Range of application	Standard deviation in extinction units
UV-Cuvette micro, z = 8.5	70 µl	850 µl	2 x 3.5 mm (min.)	from 230 to 900 nm	240 nm $\leq \pm 0.007$ 300 nm $\leq \pm 0.005$
UV-Cuvette micro, z = 15	70 µl	550 µl	2 x 3.5 mm (min.)		
UV-Cuvette macro	2.5 ml	4.5 ml	10 x 35 mm		
UV-Cuvette semi-micro	1.5 ml	3.0 ml	4.5 x 23 mm		
macro cuvette (PMMA)	2.5 ml	4.5 ml	10 x 35 mm	from 300 to 900 nm	320 nm $\leq \pm 0.004$
semi-micro cuvette (PMMA)	1.5 ml	3.0 ml	4.5 x 23 mm		
macro cuvette (PS)	2.5 ml	4.5 ml	10 x 35 mm	from 340 to 900 nm	360 nm $\leq \pm 0.005$
semi-micro cuvette (PS)	1.5 ml	3.0 ml	4.5 x 23 mm		
macro cuvette (PS) 4 clear sided	2.5 ml	4.5 ml	10 x 35 mm	from 340 to 900 nm	360 nm $\leq \pm 0.005$
UV-Cuvette macro 4 clear sided	2.5 ml	4.5 ml	10 x 35 mm	from 230 to 900 nm	240 nm $\leq \pm 0.007$ 300 nm $\leq \pm 0.005$

Accessories

Cuvette rack

PP, gray. Numbered positions.
Autoclavable (121 °C).
Suitable for standard 10 mm
path-length cuvettes.
Pack of 1.



Description	Length [mm]	Width [mm]	Height [mm]	Cat. No.
for 16 cuvettes	210	70	38	759500

Disposable stirring spatula

PS. Pack quantity 10000 =
20 bags of 500 per pack.



Description	Stem Ø [mm]	Length [mm]	Cat. No.
PS	3	120	759800



UV-Cuvette micro

- Usable starting from 230 nm
- Specially designed for photometric determination of proteins, ssDNA, dsDNA, RNA and oligonucleotides

Caps for UV-Cuvette micro

- Create a secure closure
- For sample storage down to -20 °C
- Multiple colors for efficient sample management

Various photometric methods are currently available for determining the concentration and purity of nucleic acids and proteins.

Protein determination using UV cuvettes:

$$C_{\text{Protein (mg/ml)}} = 1.55 \cdot A_{280 \text{ nm}} - 0.76 \cdot A_{260 \text{ nm}}$$

Nucleic determination using UV cuvettes:

$$C_{\text{DNA (}\mu\text{g/ml)}} = 50 \cdot A_{260 \text{ nm}} \cdot \text{dilution factor}$$

$$C_{\text{RNA (}\mu\text{g/ml)}} = 40 \cdot A_{260 \text{ nm}} \cdot \text{dilution factor}$$

Technical information & Ordering data



UV-Cuvette micro

Center height	8.5 mm	8.5 mm	8.5 mm
Light path [mm]	10	10	10
Sample volume [μl]	70 - 850	70 - 850	70 - 850
Quality	standard	standard	free of DNase, RNase and DNA
Pack of	100 pieces	500 pieces	100 pieces (single wrapped)
Cat. No.	759200	759210	759215



Center height	15 mm	15 mm	15 mm
Light path [mm]	10	10	10
Sample volume [μl]	70 - 550	70 - 550	70 - 550
Quality	standard	standard	free of DNase, RNase and DNA
Pack of	100 pieces	500 pieces	100 pieces (single wrapped)
Cat. No.	759220	759230	759235

Cap for UV-Cuvettes micro



Color	blue	yellow	green	red
Material	PE	PE	PE	PE
Pack of	100 pieces	500 pieces	100 pieces	100 pieces
Cat. No.	759240	759241	759242	759243



Standard cuvettes and UV-Cuvettes macro and semi-micro

- Ideally suited for determinations in water analysis, chemistry, and in life science applications
- Grouped by mold cavity number
- Significant lower costs compared to quartz glass cuvettes

Technical information & Ordering data

Macro and semi-micro cuvettes



Description	macro		
Material	PS	PMMA	UV-Polymer
Light path [mm]	10	10	10
Sample volume [ml]	2.5 - 4.5	2.5 - 4.5	2.5 - 4.5
Pack of	1000 pieces (10 boxes of 100 cuvettes per box)		100 pieces
Cat. No.	759005	759105	759170

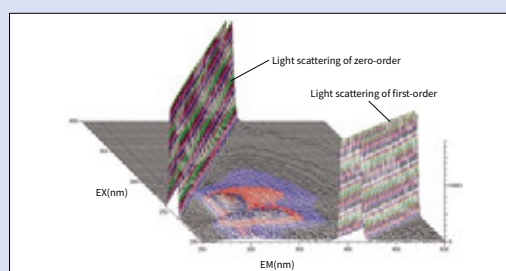


Description	semi-micro		
Material	PS	PMMA	UV-Polymer
Light path [mm]	10	10	10
Sample volume [ml]	1.5 - 3.0	1.5 - 3.0	1.5 - 3.0
Pack of	1000 pieces (10 boxes of 100 cuvettes per box)		100 pieces
Cat. No.	759015	759115	759150

Macro cuvette 4 clear sided

- For efficient and safe work, without cleaning steps
- Suitable for fluorescence spectroscopy
- Significantly lower costs for use compared to quartz glass cuvettes
- UV-Cuvettes show minimal autofluorescence

Minimal autofluorescence of UV-cuvettes



3-D scan from 200 to 400 nm wavelength with Hitachi F-7000 FL-Spectrometer

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