Disposable plastic cuvettes for spectrophotometric analyses in the UV/VIS range

BRAND

UV-Cuvettes

HIGH-TECH DISPOSABLES

Plastic disposable UV-Cuvettes for the UV/VIS range. UV-transparent plastic cuvettes replace fragile glass or quartz cuvettes in many applications that were previously beyond the range of plastic cuvettes. Designed for single use, they eliminate time-wasting washing, and the cross-contamination risk associated with washing and reusing cuvettes.

- Ideal for determination of purity and concentration of proteins, DNA and RNA
- Will fit most commercial photometers without need for adapters
- Very high chemical resistance

Disposable cuvettes for the UV/VIS range!

Quality features

- Grouped by mold cavity number
- Light path 10 mm
- Minimal extinction value variation
- Clear, clean optical path
- Recessed windows protect against scratching
- Arrow indicates optical path orientation

What is "grouped by mold cavity number?

A plastic injection mold with 8 separate cavities can produce 8 cuvettes at a time.
Minor dimensional variations between the cavities are unavoidable despite the most advanced technology.
This may result in a greater variation of extinction values between cuvettes from different cavities. Therefore, cuvettes originating from the same cavity are automatically packaged into the same carton (100 resp. 500 cuvettes).
For best results, use cuvettes from the same cavity number for each series of analyses.

More advantages

- Two optical surfaces
- High purity through fully automated packaging
- Disposable – therefore: no carry-over of samples minimized risk of contamination no cleaning costs

UV-Cuvette micro

Starting from 70 µl and 230 nm!

- Specially designed for photometric determination of proteins, ssDNA, dsDNA, RNA and oligonucleotides in the UV range
- Ideally suited for measurements at 260 nm, 280 nm and in the visible range
- No need for cleaning, no associated risk of contamination
- Sample volumes as small as 70 µl are sufficient
- Two different center heights without adapter in most commercial spectrophotometers.
- Individually wrapped UV-Cuvettes micro are free of DNase, DNA and RNase.
- Round caps provide tight seal and allow storage of samples at -20 °C
- Colored caps available for easy sample identification

Specifications of the UV-Cuvette micro

Filling volume:

UV-Cuvette micro 8.5 mm:
70-850 µl

UV-Cuvette micro 15 mm:
70-550 µl

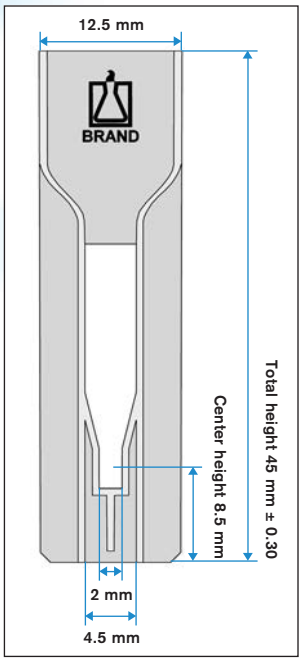
Dimensions:

Window (minimum):
2 x 3.5 mm

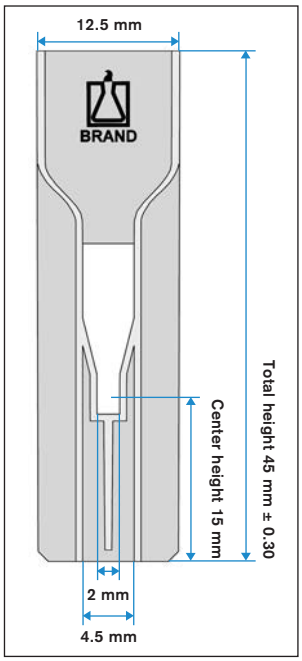
Light path:
10 mm

Wavelength range:

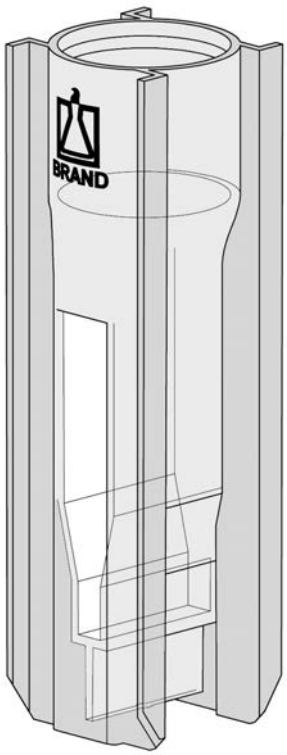
230-900 nm



UV-Cuvette micro
c = 8.5 mm



UV-Cuvette micro
c = 15 mm



UV-Cuvette macro semi-micro

For applications from 230 to 900 nm

- Ideally suited for determinations in water analysis, chemistry, and in life science applications
- Usable with most polar solvents, acids and alkalis
- Drastically reduced risk of contamination and lower costs compared to quartz glass cuvettes
- UV-Cuvette semi-micro: Filling volume 1.5 to 3 ml
  UV-Cuvette macro: Filling volume 2.5 to 4.5 ml

Technical Information

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 ≤ ± 0.007** **300 nm ≤ ± 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		

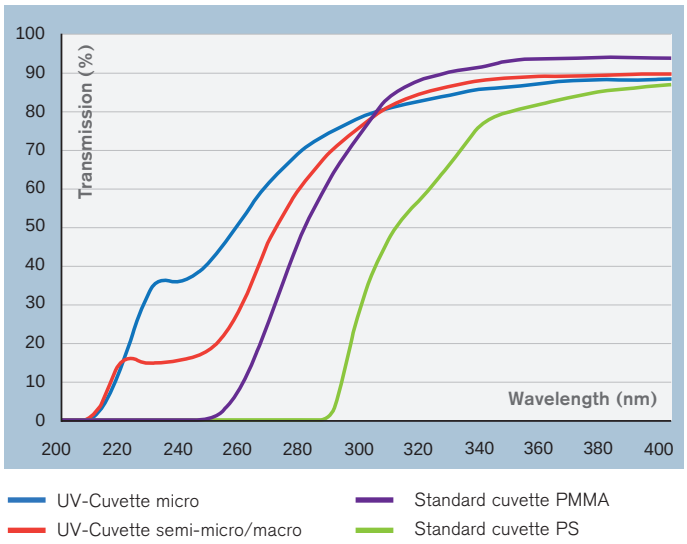
BRAND also manufactures standard macro and semi-micro cuvettes in PS and PMMA. Detailed information on request, or at www.brand.de

Chemical resistance* of plastic cuvettes

Substance	PS	PMMA	UV-Cuvette
Acetic acid, 100%	–	–	+
Acetone	–	–	+
Ammonia	+	+	+
Benzaldehyde	–	–	+
Butanone	–	–	+
Chloroform	–	–	–
Dioxane	–	–	+
DMF	–	–	+
DMSO	–	–	+
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.

Ordering Data

UV-Cuvettes

Description	Pack of	Cat. No.
UV-Cuvette micro, c = 8.5 mm	100	**7592 00**
	500	**7592 10**
single wrapped	100	**7592 15**
UV-Cuvette micro, c = 15 mm	100	**7592 20**
	500	**7592 30**
single wrapped	100	**7592 35**
UV-Cuvette semi-micro	100	**7591 50**
UV-Cuvette macro	100	**7591 70**

Caps UV-Cuvette micro

PE, pack of 100.

Color	Cat. No.
blue	**7592 40**
yellow	**7592 41**
green	**7592 42**
orange	**7592 43**

Cuvette rack

PP, gray. Holds 16 cuvettes, numbered positions.
L x W x H: 210 x 70 x 38 mm.
Autoclavable (121 °C).
Pack of 1.

Cat. No.	7595 00

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