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 220 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

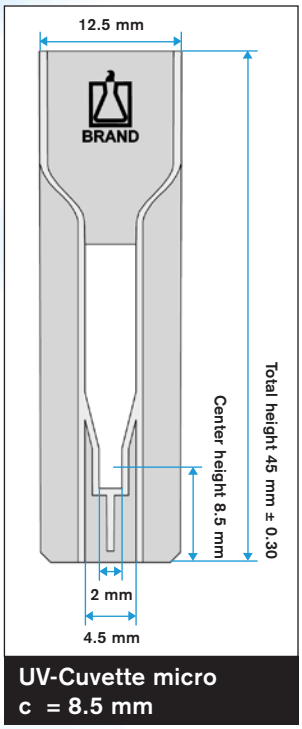
Dimensions:

Window (minimum):
2 x 3.5 mm

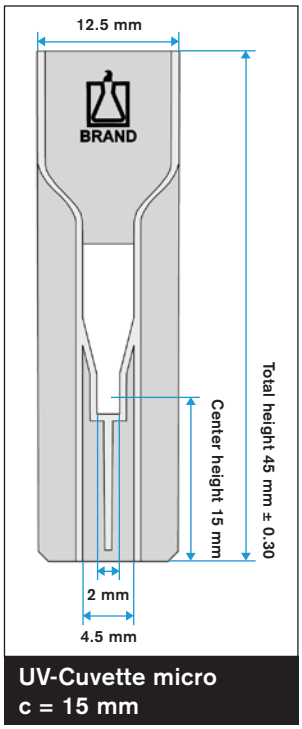
Light path:
10 mm

Wavelength range:

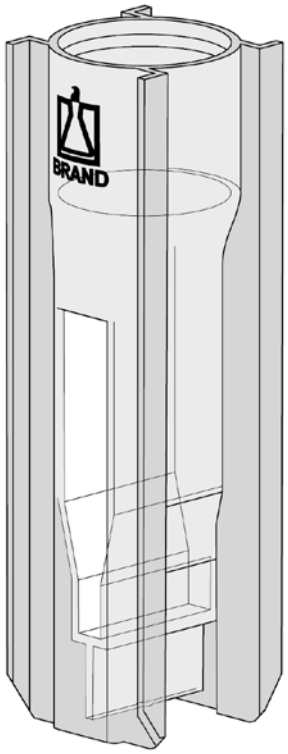
220-900 nm



UV-Cuvette micro
c = 8.5 mm



UV-Cuvette micro
c = 15 mm



UV-Cuvette macro semi-micro

For applications from 220 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

General specifications

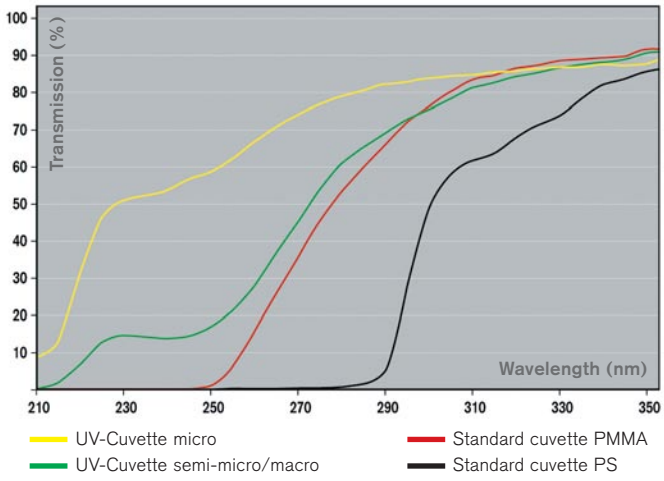
Cuvettes	Filling volume min.	max.	Dimensions window (W x H)	Range of application	Standard deviation in extinction use
UV-Cuvette micro, center height = 8.5 mm	70 µl	850 µl	2 x 3.5 mm (min.)	for all cuvettes: from 220 to 900 nm	240 nm ≤ ± 0.007 300 nm ≤ ± 0.005
UV-Cuvette micro, center height = 15 mm	70 µl	550 µl	2 x 3.5 mm (min.)		
UV-Cuvette semi-micro	1.5 ml	3.0 ml	4.5 x 23 mm		
UV-Cuvette macro	2.5 ml	4.5 ml	10 x 35 mm		

Chemical resistance* of plastic cuvettes

Substance	PS	PMMA	UV-Cuvette
Acetic acid, 100%	–	–	+
Acetone	–	–	+
Ammonia	+	+	+
Benzaldehyde	–	–	+
Butanon	–	–	+
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.

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

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

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

BRAND GMBH + CO KG · P.O. Box 11 55 · 97861 Wertheim · Germany
Tel: +49 9342 808-0 · Fax: +49 9342 808-236 · E-Mail: info@brand.de · Internet: www.brand.de

BRAND

9945 41 · Printed in Germany · 24/0806

4 033378 401014