BRAND. For lab. For life.®

BRAND

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Information about disposable cuvettes

We confirm that our disposable PS, PMMA and UV cuvettes are manufactured out of pure granular materials under controlled room conditions.

The quality management system applied at BRAND and certified to DIN EN ISO 9001 is a combination of process monitoring and random checks. The accepted quality level (AQL) is at very least 0.4, i.e., the limiting values are met with a statistical certainty of at least 99.6 %.

Individually wrapped UV-cuvettes micro are continuously tested by an independent laboratory and are certified to be free of DNase, RNase and DNA.

The external dimensions of BRAND disposable cuvettes macro, semi-micro and micro are manufactured according to DIN 58 963 part 3.

Specifications

Material	Polystyrene (PS) used in Cat. No. 759005, 759015, 759030, 759035 Polymethylmethacrylate (PMMA) used in Cat. No. 759105, 759115 UV-Polymer used for Cat. No. 759200, -10, -15 -20, -30; 759125, 759128, 759150, 759165, 759170;

Filling volume

Macro cuvette	min. 2.5 mL; 4.5 mL
Macro cuvette, four clear sided	min. 2.5 mL; 4.5 mL
Semi-micro cuvette	min. 1.5 mL; max. 3.0 mL
Micro cuvette (c = 8.5 mm)	min. 70 µL; max. 850 µL
Micro cuvette (c = 15 mm)	min. 70 µL; max. 550 µL

Dimensions

Cuvette	12.5 x 12.5 x 45 mm
Windows:	
Macro cuvette	10 x 35 mm
Macro cuvette, four clear sided	10 x 35 mm
Semi-micro cuvette	4.5 x 23 mm
Micro cuvette	2 x 3.5 mm (minimum)
Light path	10 mm

Polystyrene cuvettes (PS)

Typical range of application:	340 nm to 900 nm.
Standard deviation:	360 nm $\leq \pm$ 0.005 extinction units.

Polymethylmethacrylate (PMMA)

Typical range of application:	300 nm to 900 nm.
Standard deviation:	320 nm $\leq \pm$ 0.004 extinction units.

UV-Cuvettes

Typical range of application:	230 nm to 900 nm
Standard deviation:	240 nm $\leq \pm$ 0.007 extinction units.
Standard deviation:	300 nm $\leq \pm$ 0.005 extinction units.

Each case of disposable cuvettes contains cuvettes from one cavity of the injection mould to ensure minimal variations of extinction values.

Storage and shelf life:

Cuvettes should be stored using the original packaging, at temperatures between 10°C and 50°C and at a relative humidity between 30% and 65%. All BRAND cuvettes made from polystyrene, polymethylmethacrylate or UV transparent resin show a shelf life of 5 years beginning from the date of manufacturing.

Manufacturing date can be identified from the Lot-No. on the separate label.

Capital letter indicates the year of production:

W= 2022
X= 2023
Y= 2024

Day of production is shown by the 3 digit long number that follows the letter. This number counts from 001 (January 1st) to 365 (December 31th). The last number separated by hyphen indicates the cavity of the injection mould and is relevant for Lot-No. identification.

Example:

Lot-No.: X 028-7

Production date: 2023/January 28th; cavity 7

Shelf life: January 2028

BRAND GMBH + CO KG

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