BRAND UV-CUVETTES

Disposable UV-transparent cuvettes – an economical alternative to Quartz

Macro & semi-micro UV-Cuvettes

Ultra-micro UV-Cuvettes

Ultra-micro caps improve sample storage

A chemical application guide & transmission curve are available at www.brandtech.com/cuvettes or contact BrandTech® Customer Service at 888-522-2726.

- Replace quartz cuvettes for testing DNA, RNA and proteins – 70µL minimum sample volume
- Eliminate the cross-contamination risk of reusable cuvettes
- Save time and money: no more cuvette washing
- UV-transparent: Use from 230nm to 900nm
- Chemical resistance superior to other plastic cuvettes
- Fit nearly all UV/VIS spectrophotometers without adapters
- Available individually-wrapped, DNA-/DNase-/RNase-free

Specifications – BRAND Cuvette

Filling volume	**Ultra-micro**	**Semi-micro**	**Macro**
Minimum	70µL	1.5mL	2.5mL
Maximum	550µL (15mm window) 850µL (8.5mm window)	3.0mL	4.5mL
Window Dimensions	2mm x 3.5mm (minimum)	4.5 x 23mm	10 x 35mm
Light Path	10mm	10mm	10mm
Range of application	230-900nm	230-900nm	230-900nm
Standard deviation in extinction units			
at wavelength 240nm	< ± 0.007	< ± 0.007	< ± 0.007
at wavelength 300nm	< ± 0.005	< ± 0.005	< ± 0.005

Description	Cat. No.	2015 List Price
BRAND UV-Cuvettes (specifications above)		
Macro, pack of 100	759170	$84.00
Semi-micro, pack of 500	759165	377.00
Semi-micro, pack of 100	759150	84.00
Ultra-micro (15mm window height), pack of 500	759230	377.00
Ultra-micro (15mm window height), pack of 100	759220	84.00
Ultra-micro (15mm window height), DNA-/DNase-/RNase-free, pack of 100	759235	123.00
Ultra-micro (8.5mm window height), pack of 500	759210	377.00
Ultra-micro (8.5mm window height), pack of 100	759200	84.00
Ultra-micro (8mm window height), DNA-/DNase-/RNase-free, pack of 100	759215	123.00
Cuvette Caps and Accessories		
Cuvette Caps, round, for ultra-micro cuvettes, bag of 100, blue	759240	27.40
Cuvette Caps, round, for ultra-micro cuvettes, bag of 100, yellow	759241	27.40
Cuvette Caps, round, for ultra-micro cuvettes, bag of 100, green	759242	27.40
Cuvette Caps, round, for ultra-micro cuvettes, bag of 100, orange	759243	27.40
Polypropylene Cuvette Rack, with 16 numbered positions	759500	24.60

Lab Rats Trust BrandTech®!

BRANDTECH® SCIENTIFIC, INC.

Toll Free: 888-522-2726

www.brandtech.com

Plastic/Cuvette Chemical Selection Chart

Chemical	PS	PMMA	UV
Acetic acid (96%)	Poor	Poor	Excellent
Acetone	Poor	Poor	Excellent
Acetonitrile	Poor	Poor	Excellent
Benzene	Poor	Poor	Poor
Butanone (methyl ethyl ketone, MEK)	Poor	Poor	Excellent
Carbon Tetrachloride	Poor	Poor	Poor
Chloroform	Poor	Poor	Poor
Diethy Ether	Poor	Poor	Marginal
Dimethyl Sulfoxide	Marginal	Poor	Excellent
Ethanol	Poor	Poor	Excellent
Formaldehye (40%)	Poor	Poor	Excellent
Heptane	Poor	Marginal	Poor
Hexane	Poor	Excellent	Poor

Chemical	PS	PMMA	UV
Hydrochloric Acid (32%)	Marginal	Poor	Excellent
Isopropanol	Marginal	Marginal	Excellent
n-Pentane	Poor	Poor	Poor
Oleic Acid	Poor	Poor	Poor
Perchloric Acid (10%)	Poor	Poor	Excellent
Petroleum Ether	Poor	Poor	Marginal
Phenol	Poor	Poor	Excellent
Sodium Hydroxide	Excellent	Poor	Excellent
Sulfuric Acid	Poor	Poor	Excellent
Trichloroacetic Acid	Poor	Poor	Excellent
Trichloroethylene	Poor	Poor	Poor
Toluene	Poor	Poor	Poor

Excellent: Properties of BRAND Disposable Cuvettes remain intact after 24 hours of exposure.
Marginal: Properties of BRAND Disposable Cuvettes may not remain intact after 24 hours of exposure. Testing is recommended prior to use.
Poor: Properties of BRAND Disposable Cuvettes will not remain intact after 24 hours of exposure.

For the most current version of this chart, visit our web site at **www.brandtech.com/cuvette_comp.asp**

Selecting The Correct Ultra-Micro Cuvette Window Height To Match Your Spectrophotometer Beam Height

Find the beam height of your spectrophotometer at **www.brandtech.com/cuvettes**

For detection, spectrophotometers shine a beam of light through a sample in a cuvette. The height of the beam from the bottom of the cuvette chamber is termed the "beam height" or "z-dimension". Two competing industry "standards" have developed for the beam height: 8.5mm and 15mm. When working with macro and semi-micro cuvettes, the beam height determines only the minimum fill volume; the cuvette must be filled enough to reach the spectrophotometer beam height. In contrast, the volume of sample in an ultra-micro cuvette is so small that the sample chamber in the cuvette must be elevated from the bottom of the cuvette so that the sample lines up with the light beam. Ultra-micro cuvettes are made with window heights that align with either the 8.5mm or 15mm beam heights. It is critical that the window height of your ultra-micro cuvette matches the beam height of your spectrophotometer. With the wrong window height, the beam either will not pass through the sample at all, or you will need much more than the minimum-specified sample volume to obtain a result.

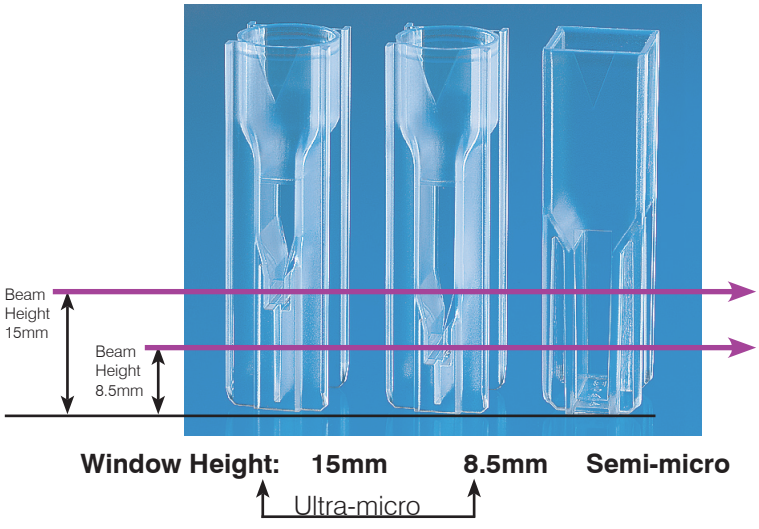

Figure 1. Illustrates the importance of matching beam height and window height with ultra-micro cuvettes. Beam Path is represented by the horizontal arrows.