Cuvets

Disposable cuvets have long replaced cuvets once normally made of glass. New plastics coupled with modern methods of production allow photometric measurement well into the UV range.

Ultra-precision molds with several cavities – one per cuvet – are used for producing ratiolab® Q-VETTES and ratiolab® CUETTES under controlled room conditions. Thus, in any one injection molding run several cuvets are produced simultaneously. In order to prevent deviations in extinction coefficient values from occurring in any one run due to increased stray light, the cuvets are automatically sorted according to their numbered cavities of origin. Each package shows the corresponding local production number of the cuvets position in the net. So all cuvets inside one styrofoam box are technical wise indentical. Any measurement done with those identical cuvets insures a high accuracy.

Q-VETTES

The new generation of cuvets with clearly improved photometric properties. The optimized form and the small wall thickness of the cuvets provides increased heat transfer resulting in more constant sample temperatures during photometric measurements.

- glass-clear polystyrene (PS)
- applicable wavelength range 340 to 900 nm
- very low variation of extinction values
- excellent optical transmission range
- cavity-sorted production
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- supplied in practical styrofoam racks: 100 netidentical cuvets in a styrofoam box with closable lid

<table>
<thead>
<tr>
<th>Product</th>
<th>Material</th>
<th>Volume ml</th>
<th>Packaging</th>
<th>Quantity per Pack</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ratiolab® Q-VETTES semi-micro</td>
<td>PS</td>
<td>1.6</td>
<td>styrofoam racks 10 x 100</td>
<td>1000</td>
<td>27 12 120</td>
</tr>
<tr>
<td>ratiolab® Q-VETTES macro</td>
<td>PS</td>
<td>4.0</td>
<td>styrofoam racks 10 x 100</td>
<td>1000</td>
<td>27 11 110</td>
</tr>
</tbody>
</table>
Cuvets

Cuvettes

For photometric measurements even in the UV range 220 nm

Due to the special plastic material and the excellent manufacturing process the cuvets can also be used in photometric ranges reserved for UV glass cuvets in the past.
- applicable wavelength range 220 to 900 nm
- very low variation of extinction values
- excellent optical transmission range
- cavity-sorted production
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- supplied in practical styrofoam racks: 100 net identical cuvets in a styrofoam box with a resealable cover

<table>
<thead>
<tr>
<th>Product</th>
<th>Material</th>
<th>Volume ml</th>
<th>Packaging</th>
<th>Quantity per Pack</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ratiolab® CUVETTES semi-micro</td>
<td>UV</td>
<td>1.6</td>
<td>styrofoam rack 1 x 100</td>
<td>100</td>
<td>27 22 120</td>
</tr>
<tr>
<td>ratiolab® CUVETTES macro</td>
<td>UV</td>
<td>4.0</td>
<td>styrofoam rack 1 x 100</td>
<td>100</td>
<td>27 22 110</td>
</tr>
</tbody>
</table>

UV Micro Cuvets

For photometric measurements of proteins, ssDNA, dsDNA, RNA and oligonucleotides.
- application wavelength range 260 nm to 900 nm.
- suitable for measurements at 260 nm, 280 nm and within visible wavelength range
- applicable with low volumes from 70 µl
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- two different center heights of 8.5 and 15 mm facilitate the application without any adaptor in all most commonly used spectro-photometers like Eppendorf® WPA, Analytik Jena, Biochrom and others.
- round caps 2812010 for safe closing and sample storage until -20°C
- supplied in practical styrofoam racks: 100 net identical cuvets in a styrofoam box with a resealable cover

<table>
<thead>
<tr>
<th>Product</th>
<th>Material</th>
<th>Center height mm</th>
<th>Volume µl</th>
<th>Packaging</th>
<th>Quantity per Pack</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUVETTES micro</td>
<td>UV</td>
<td>8,5</td>
<td>70-850</td>
<td>styrofoam rack 1 x 100</td>
<td>100</td>
<td>27 22 130</td>
</tr>
<tr>
<td>CUVETTES micro</td>
<td>UV</td>
<td>15</td>
<td>70-550</td>
<td>styrofoam rack 1 x 100</td>
<td>100</td>
<td>27 22 131</td>
</tr>
</tbody>
</table>
Cuvets

Cuvets of PMMA

- cuvets of polymethylmethacrylate (PMMA)
- applicable wavelength range 300 to 900 nm
- very low variation of extinction values
- excellent optical transmission range
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- supplied in practical styrofoam racks: 100 netidentical cuvets in a styrofoam box with a resealable cover

<table>
<thead>
<tr>
<th>Product</th>
<th>Material</th>
<th>Volume ml</th>
<th>Packaging</th>
<th>Quantity per Pack</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ratiolab® semi-micro cuvets</td>
<td>PMMA</td>
<td>1.6</td>
<td>styrofoam racks 10 x 100</td>
<td>1000</td>
<td>28 10 100</td>
</tr>
<tr>
<td>ratiolab® macro cuvets</td>
<td>PMMA</td>
<td>4.0</td>
<td>styrofoam racks 10 x 100</td>
<td>1000</td>
<td>28 11 110</td>
</tr>
</tbody>
</table>

Cuvets, Solvent Resistant

- resistant against polar solvents
- applicable wavelength range 220 to 900 nm
- very low variation of extinction values
- excellent optical transmission range
- cavity-sorted production
- embossed areas aside the measuring fields reduces the risks of damaging the cuvette by the cuvette holder.
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- supplied in practical styrofoam racks: 100 netidentical cuvets in a styrofoam box with a resealable cover

![Graph](image)

Stopper for Cuvets

Polypropylene (PP), or polyethylene (PE).

- stopper 2812010 suitable to UV-Cuvets Micro 2722130 and 2722131

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Color</th>
<th>Packaging</th>
<th>Quantity per Pack</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>for all ratiolab® Cuvets</td>
<td>PP</td>
<td>natural</td>
<td>bag 1 x 1000</td>
<td>1000</td>
<td>28 12 011</td>
</tr>
<tr>
<td>for UV-Cuvets micro</td>
<td>PE</td>
<td>blue</td>
<td>bag 1 x 100</td>
<td>100</td>
<td>28 12 010</td>
</tr>
</tbody>
</table>