Dispensette® S
Trace Analysis
Bottle-top Dispenser

Number 1 for dispensing high-purity media
Trace metal content generally below the detectability threshold
Dispensing of acids and bases for trace analysis – also suitable for hydrofluoric acid
A Closer Look...

The bottle-top dispenser Dispensette® S Trace Analysis is designed for use in trace analysis. The high-purity materials of the dispenser release no metal ions. No values found above the detectability threshold in ICP-MS analysis*.

Innovative ideas – trusted technology.

- New discharge tube with or without recirculation valve
- New valve system no sealing rings necessary
- Dispensing of media in the volume range from 1 to 10 ml.
- Volume selection with interior scalloped track
- Dispensing hydrofluoric acid no problem with the platinum-iridium valve spring.
- Trace metal content generally below the detectability threshold of normal analytic procedures

* ICP-MS according to DIN EN ISO 17394-2 (E29). Further information with details on device preparation and analytic results are available in a Technical Note on www.brand.de.
Simple to mount
The new discharge tube is easy to fasten and is available with or without a recirculation valve.

Positive volume setting
Volume setting is quick, secure and repeatable due to the interior scalloped track.

Designed without seals
All valves work without any additional sealing rings, which makes cleaning easier.

Replaceable dispensing cartridge
The entire dispensing cartridge can easily be replaced without tools by the user. Fully adjusted at the factory, with a performance certificate. No calibration is required after replacement.

Recommended application range

<table>
<thead>
<tr>
<th>Dispensing medium</th>
<th>Valve spring Pt-Ir</th>
<th>Valve spring Ta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Ammonia solution</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Bromine</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Hydrofluronic acid**</td>
<td>+</td>
<td>–</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td>Nitric acid</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Perchloric acid</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Sodium hydroxide, 30%</td>
<td>+</td>
<td>–</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Water</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

* suitable  --  not suitable
** Hydrofluoric acid reacts slightly with sapphire resulting in mildly elevated aluminum values. To reduce these values we recommend discarding 3-5 dispensings of 2 ml each before performing the analysis.

The above recommendations reflect testing completed prior to publication. Always follow instructions in the operating manual of the instrument as well as the reagent manufacturer’s specifications. Should you require information on chemicals not listed, please feel free to contact BRAND. Status as of: 0815/2

• Parts in contact with media consist of high-purity materials such as PTFE, ETFE, PCTFE, FEP and PFA. The purest sapphire is used for replaceable valves. Depending on the application, platinum-iridium or tantalum are available as spring materials.

• A field-tested cleaning process before use in trace analysis is described in the operating manual.

• If contamination of the bottle contents must be avoided when used in trace analysis, we recommend using the dispenser without recirculation valve.

• The valve block can be rotated 360° so that the bottle label always faces the user for safety

• Telescoping filling tube adjusts to different bottle sizes

• The 45 mm standard thread plus the included adapters fit common lab bottles

• Easy disassembly for replacement of the dispensing cartridge

• DE-M marking*

* legally replaces ** since January 1, 2015

Trusted technology

Easy Handling

Positive volume setting

Designed without seals

Replaceable dispensing cartridge

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Capacity ml

Valve spring A* \( \leq \pm \% \) µl

CV* \( \leq \% \) µl

without recirculation valve Cat. No.

with recirculation valve Cat. No.

1 - 10 Platinum-iridium 0.5 50 0.1 10 4640 040 4640 041

1 - 10 Tantalum 0.5 50 0.1 10 4640 240 4640 241

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**Dispensette® S Trace Analysis, Analog-adjustable**

**Items supplied:**

Dispensette® S Trace Analysis bottle-top dispenser, DE-M marking, performance certificate, telescoping filling tube, recirculation tube (optional), mounting tool and bottle adapters GL 28/S 28 (ETFE), GL 32 (ETFE) and S 40 (PTFE).

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**Accessories · Spare Parts**

**Discharge tubes**


<table>
<thead>
<tr>
<th>Valve spring</th>
<th>Length mm</th>
<th>without recirculation valve Cat. No.</th>
<th>with recirculation valve Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platinum-iridium</td>
<td>105</td>
<td>7080 22</td>
<td>7081 22</td>
</tr>
<tr>
<td>Tantalum</td>
<td>105</td>
<td>7080 24</td>
<td>7081 24</td>
</tr>
</tbody>
</table>

**Flexible discharge tube with recirculation valve** *

PTFE, coiled, length approx. 800 mm, with safety handle. Pack of 1.

<table>
<thead>
<tr>
<th>Nominal volume ml</th>
<th>Discharge tube Outer Ø mm</th>
<th>Inner Ø mm</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>3</td>
<td>2</td>
<td>7081 32</td>
</tr>
</tbody>
</table>

* not suitable for HF

**Bottle stand**

PP. Full plastic construction. Support rod 325 mm, base plate 220 x 160 mm, weight 1130 g. Pack of 1.

Cat. No. 7042 75

**Dispensing cartridge with safety ring**


Cat. No. 7080 35

**Telescoping filling tubes**

FEP. Adjusts to various bottle heights. Pack of 1.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>70-140</td>
<td>7082 10</td>
</tr>
<tr>
<td>125-240</td>
<td>7082 12</td>
</tr>
<tr>
<td>198-350</td>
<td>7082 14</td>
</tr>
<tr>
<td>250-480</td>
<td>7082 16</td>
</tr>
</tbody>
</table>

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**Additional accessories can be found at www.brand.de**

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