NEW
BUCHI Kjeldahl
Tablets

Benefits:
- Time saving
- Broad range for most sample types
- Easy to use
- High flexibility
- Maximum foam-reduction
- Environmentally friendly
## The Kjeldahl Tablets

- Massive acceleration of Kjeldahl digestion
- Consist of SULFATE and METAL SALTS

### SULFATE
- Salt raises the boiling point of sulfuric acid

### METAL SALTS
- (coppers or titanium salts) shorten the digestion time

## BUCHI Range of Kjeldahl Tablets

<table>
<thead>
<tr>
<th>Article</th>
<th>Benefit</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium</td>
<td>Time saving</td>
<td>3.5 g K$_2$SO$_4$ / 0.105 g CuSO$_4$ • 5 H$_2$O 0.105 g TiO$_2$</td>
</tr>
<tr>
<td>Titanium Micro</td>
<td>Reduced chemical amount</td>
<td>1.5 g K$_2$SO$_4$ / 0.045 g CuSO$_4$ • 5 H$_2$O 0.045 g TiO$_2$</td>
</tr>
<tr>
<td>Missouri</td>
<td>Easy to use and universally applicable</td>
<td>4.98 g K$_2$SO$_4$ 0.02 g CuSO$_4$ • 5 H$_2$O</td>
</tr>
<tr>
<td>ECO</td>
<td>Environmentally friendly</td>
<td>3.998 g K$_2$SO$_4$ 0.002 g CuSO$_4$</td>
</tr>
<tr>
<td>Antifoam</td>
<td>Maximum foam reduction</td>
<td>0.97 g Na$_2$SO$_4$ 0.03 g Silicone Antifoam</td>
</tr>
<tr>
<td>Copper Micro</td>
<td>Reduced chemical amount</td>
<td>1.5 g K$_2$SO$_4$ 0.15 g CuSO$_4$ • 5 H$_2$O</td>
</tr>
</tbody>
</table>
Choosing the Correct Tablet

What to consider when choosing a tablet?

KEEP IN MIND

Ideal digestion conditions are achieved with
2 ml H$_2$SO$_4$ to 1 g of catalyst

- Boiling point of 370°C
- No loss of nitrogen
- Minimal time needs

- Safety aspects
- Temporal aspects
- Ecological aspects
- Foam formation
- Chemical amount

Use the enclosed decision wheel to select the tablet that best suits your needs.

<table>
<thead>
<tr>
<th>Weight</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.71 g</td>
<td>Optimal compromise between environmental and performance priorities.</td>
</tr>
<tr>
<td>1.59 g</td>
<td>Same as Titanium (11057980) but for semi-micro-Kjeldahl &amp; micro-Kjeldahl applications.</td>
</tr>
<tr>
<td>5 g</td>
<td>The digestion with the Missouri catalyst is more environmentally friendly.</td>
</tr>
<tr>
<td>4 g</td>
<td>Our most environmentally friendly catalyst, due to the very low copper content.</td>
</tr>
<tr>
<td>1 g</td>
<td>Used as a general purpose foam suppressant. This catalyst has to be combined with Titanium Micro (11057981) or Copper Micro (11057985).</td>
</tr>
<tr>
<td>1.65 g</td>
<td>Combo tablets for antifoam or for micro Kjeldahl applications</td>
</tr>
</tbody>
</table>
Turn the Decision Wheel

Use the decision wheel to choose the catalyst that best suits your needs.

1. Select the correct side of the wheel according to your application
   - Standard Kjeldahl method
   - Micro-Kjeldahl method

2. Rotate the wheel till your decision factors appear
   - Foam formation of sample
   - Time requirements for digestion
   - Environmental importance

Example

Fast digestion of a non-foaming sample
1. Standard Kjeldahl application
   ↳ select side for “standard Kjeldahl”
2. No foam formation
   ↳ foam formation “no”
3. Fast digestion
   ↳ temporal aspects important “2”
Recommended tablet: Titanium

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Quality in your hands