**Sulphate T**

5 - 100 mg/l SO$_4^{2-}$

**Bariumsulphate Turbidity**

**Instrument specific information**

The test can be performed on the following devices. In addition, the required cuvette and the absorption range of the photometer are indicated.

<table>
<thead>
<tr>
<th>Instrument Type</th>
<th>Cuvette</th>
<th>$\lambda$</th>
<th>Measuring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD 600, MD 610, MD 640,</td>
<td>$\phi$ 24 mm</td>
<td>610 nm</td>
<td>5 - 100 mg/l SO$_4^{2-}$</td>
</tr>
<tr>
<td>MultiDirect, PM 620, PM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>630, XD 7000, XD 7500</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Material**

Required material (partly optional):

<table>
<thead>
<tr>
<th>Reagents</th>
<th>Packaging Unit</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfate Turbidity</td>
<td>Tablet / 100</td>
<td>515450BT</td>
</tr>
<tr>
<td>Sulfate Turbidity</td>
<td>Tablet / 250</td>
<td>515451BT</td>
</tr>
</tbody>
</table>

**Application List**

- Waste Water Treatment
- Cooling Water
- Drinking Water Treatment
- Pool Water Treatment
- Raw Water Treatment

**Notes**

1. Sulphate causes a finely distributed turbidity with a milky appearance.
Implementation of the provision Sulphate with Tablet

Select the method on the device
For this method, no ZERO measurements are to be carried out with the following devices: XD 7000, XD 7500

10 ml

Fill 24 mm vial with 10 ml sample.
Close vial(s).
Place sample vial in the sample chamber. • Pay attention to the positioning.

Zero

Press the ZERO button.
Remove the vial from the sample chamber.
For devices that require no ZERO measurement, start here.

Add SULFATE T tablet.
Crush tablet(s) by rotating slightly.
Close vial(s).
Dissolve tablet(s) by inverting.

Place **sample vial** in the sample chamber. • Pay attention to the positioning.

Press the TEST (XD: START) button.

Wait for **2 minute(s) reaction time**.

Once the reaction period is finished, the measurement takes place automatically. The result in mg/l Sulphate appears on the display.
Chemical Method
Bariumsulphate Turbidity

Appendix

Calibration function for 3rd-party photometers
Conc. = a + b\Abs + c\Abs^2 + d\Abs^3 + e\Abs^4 + f\Abs^5

<table>
<thead>
<tr>
<th></th>
<th>ø 24 mm</th>
<th>□ 10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>3.70245 \times 10^0</td>
<td>3.70245 \times 10^0</td>
</tr>
<tr>
<td>b</td>
<td>1.39439 \times 10^{-2}</td>
<td>2.99793 \times 10^{-2}</td>
</tr>
<tr>
<td>c</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Derived from
DIN ISO 15923-1 D49