## 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.

| Instrument Type | Cuvette | $\boldsymbol{\lambda}$ | Measuring Range |
| :--- | :--- | :--- | :--- |
| MD 600, MD 610, MD 640, | $\varnothing 24 \mathrm{~mm}$ | 610 nm | $5-100 \mathrm{mg} / \mathrm{L} \mathrm{SO}_{4}{ }^{2-}$ |
| MultiDirect, PM 620, PM 630, <br> XD 7000, XD 7500 |  |  |  |

## Material

Required material (partly optional):

| Reagents | Packaging Unit | Part Number |
| :--- | :--- | :--- |
| Sulfate Turbidity | Tablet / 100 | 515450BT |
| Sulfate Turbidity | Tablet / 250 | 515451BT |

## Application List

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


## Notes

1. Sulphate causes a finely distributed turbidity with a milky appearance.

## Determination of Sulphate with Tablet

Select the method on the device.
For this method, a ZERO measurement does not have to be carried out every time on the following devices: XD 7000, XD 7500


Fill 24 mm vial with $10 \mathrm{~mL} \quad$ Close vial(s). sample.

Place sample vial in the sample chamber. Pay atten-
 tion to the positioning.


Press the ZERO button.
Remove the vial from the sample chamber.

For devices that require no ZERO measurement, start here.



Dissolve tablet(s) by inverting.


Wait for 2 minute(s) reaction time.

Once the reaction period is finished, the measurement takes place automatically.
The result in $\mathrm{mg} / \mathrm{L}$ Sulphate appears on the display.

## Chemical Method

Bariumsulphate Turbidity

## Appendix

## Calibration function for 3rd-party photometers

Conc. $=\mathrm{a}+\mathrm{b} \cdot \mathrm{Abs}+\mathrm{c} \cdot \mathrm{Abs}^{2}+\mathrm{d} \cdot \mathrm{Abs}^{3}+\mathrm{e} \cdot \mathrm{Abs}^{4}+\mathrm{f} \cdot \mathrm{Abs}^{5}$

|  | $\boldsymbol{ø} \mathbf{2 4 ~ m m}$ | $\square \mathbf{1 0 ~ m m ~}$ |
| :--- | :--- | :--- |
| a | $3.70245 \cdot 10^{+0}$ | $3.70245 \cdot 10^{+0}$ |
| b | $1.39439 \cdot 10^{+2}$ | $2.99793 \cdot 10^{+2}$ |
| c |  |  |
| d |  |  |
| e |  |  |
| f |  |  |

Derived from
DIN ISO 15923-1 D49

