REF 985087

Test 0-87 07.17
NANOCOLOR® Sulfate 1000

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Method:
Photometric determination as barium sulfate

Range:	**200–1000 mg/L SO_4^{2-}**
Accuracy:	**± 10 %** at 500 mg/L
Wavelength (HW = 5–12 nm):	**436 nm**
Reaction time:	**2 min (120 s)**
Reaction temperature:	**20–25 °C**

Contents of reagent set:
20 test tubes Sulfate 1000
1 bottle with 2 g Sulfate 1000 R2
1 measuring spoon 70 mm

Hazard warning:
Reagent R2 contains barium chloride 83–100 %.
H301 Toxic if swallowed.
P280sh, P301+310, P405 Wear protective gloves / eye protection. IF SWALLOWED: Immediately call a POISON CENTER / doctor. Store locked up. For further information please ask for a safety data sheet.

Preliminary tests:
If the order of magnitude of the concentration in a sample is not known, a preliminary test with QUANTOFIX® Sulfate (REF 91329) rapidly gives this information. From the order of magnitude the required dilution can be calculated and prepared directly.

Interferences:
Trubidities of sample interfere and test sample must first be filtered before the determination. In drinking, surface and ground water the test results are accurate. In polluted waste water the test result can be smaller than the real concentration.

The method can not be applied for the analysis of sea water.

Procedure:
Requisite accessories: piston pipette with tips

Open test tube, add
1.0 mL test sample *(the pH value of the sample must be between pH 2 and 10)*, close, mix.
Place test tube in photometer as blank value, adjust for zero.
Open test tube, add
1 level spoon R2, close and **immediately** after addition shake vigorously for **10 s**.
Clean outside of the test tube and measure after 2 min.

Measurement:
For MACHEREY-NAGEL photometers see manual, test 0-87.

Photometers of other manufacturers:
For other photometers check whether measurement of round glass tubes is possible. Verify calibration for each type of instrument by measuring standard solutions.

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PD 14122 / A027842 / 985087 / 0772