NANOCOLOR® Fluoride 2

REF: 985040

Overview

The test is suitable for the photometric determination of F^-.

The test is suitable for surface water, ground and drinking water.

- Measuring range: 0.1 – 2.0 mg/L F^- (method 0401)
- Number of tests: 20
- Wavelength for photometric determination: 620 nm
- Shelf life: 18 months
- Reaction time: 15 minutes
- Storage temperature: 15 – 25 °C
- Storage conditions: upright

Method

Photometric determination with lanthanum/alizarin complexon. The method is analogous to APHA 4500-F-E and EPA 340.3.

Interferences

The following contaminants do not interfere with the test up to the indicated concentrations. The cumulative effect of different interfering ions has not been tested.

Data in mg/L:

- Al^{3+}: 0
- Ca^{2+}: 0
- Fe^{2+}: 0
- Fe^{3+}: 0
- NO_3^-: 100

The method is suitable for the analysis of seawater after 1 + 9 dilution.

Turbidities cause higher measurement values.

Reagents and accessories

Contents of reagents set:

- 20 test tubes R0

Required devices:

- MACHEREY-NAGEL photometer
- Digital piston pipette 1 – 5 mL (REF 916909) with pipette tips (REF 916916)

Standards

- *NANOCONTROL* Multistandard Metals 1 (REF 925015)

Sampling and preparation

See DIN EN ISO 5667-3-A21.

Adjust to pH 4 – 13 prior to analysis.

Quality control

The measurement of a blank value and a standard is recommended before every measuring series as quality control measure.

LOT-specific certificates are available at *www.mn-net.com*.

Procedure

1. Open test tube
2. Pipette 2 mL of sample into test tube
3. Seal test tube and shake vigorously
4. Wait 15 min
5. Clean outside of test tube
6. Measure

Notes

When using other photometers, make sure measurements are possible in test tubes (16 mm OD) and calibrate the method.

Correction value e. g. for colored or turbid samples possible (see photometer manual).

Information regarding safety can be found on the box' label and in the safety data sheet. You can download the SDS from *www.mn-net.com/SDS*.

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