

REF 985 070

en

Test 0-70 01.15 NANOCOLOR® POC 200

Polyoxycarboxylic acids

Method:

Photometric turbidity determination with Hyamine® 1622

	Tube test	Semi-micro cuvette 50 mm
Range:	20–200 mg/L POC AS 2020	–
	20–200 mg/L POC HS 2020	–
	20–200 mg/L Polystabil® DK	–
	2–40 mg/L Polystabil® KWI	1.0–10.0 mg/L Polystabil® KWI
Factor:	not linear	
Wavelength		
(HW = 5–12 nm):	436 nm	
Reaction time:	10 min (600 s)	
Reaction temperature:	20–25 °C	

Contents of reagent set:

20 test tubes POC 200

2 test tubes each with 11 mL POC 200 R2

Hazard warning:

This test does not contain any harmful substances which must be specially labelled as hazardous.

Interferences:

Turbidities of sample interfere and test sample must first be filtered before the determination.

The following quantities of ions will not interfere: < 1000 mg/L Ca²⁺, Cl⁻, NO₃⁻, SO₄²⁻, PO₄³⁻; < 500 mg/L Cu²⁺; < 200 mg/L Zn²⁺; < 100 mg/L Cr(III), Fe³⁺, Mg²⁺, Mo(VI); < 5 mg/L Cr(VI).

The method can be applied also for the analysis of sea water after dilution (1+3).

Procedure:

Requisite accessories: piston pipette with tips

A) Application for boilers: 20–200 mg/L

Open test tube, add

1.0 mL test sample (*the pH value of the sample must be between pH 4 and 12*), close and mix.

Add

1.0 mL R2, close and mix by shaking gently.

Clean outside of test tube and measure after 10 min.

B) Application for cooling water: 2–40 mg/L

Open test tube, add

4.0 mL test sample (*the pH value of the sample must be between pH 4 and 12*), close and mix.

Add

1.0 mL R2, close and mix by shaking gently.

Clean outside of test tube and measure after 10 min.

Lower concentrations on Polystabil® KWI (1.0–10.0 mg/L) can be determined by using semi-micro cuvettes 50 mm (REF 919 50):

Sample	Blank value
Open test tube, add	Open test tube, add
4.0 mL test sample (<i>the pH value of the sample must be between pH 4 and 12</i>), close and mix.	4.0 mL test sample (<i>the pH value of the sample must be between pH 4 and 12</i>), close and mix.
Add	Add
1.0 mL R2, close and mix by shaking gently	1.0 mL distilled water, close and mix by shaking gently.

Pour the contents of test tubes into semi-micro cuvettes 50 mm and measure after 10 min [method 1704].

Measurement:

For NANOCOLOR® photometers and PF-12 see manual, test 0-70.

Note:

Verify calibration curve for other POC products by measuring standard solutions.

Measurement when samples are colored or turbid:

For all NANOCOLOR® photometers see manual, use key for correction value.

Photometers of other manufacturers:

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

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