REF 985871 Test 8-71 04.23 *NANOCOLOR*[®] Peroxide 2

Method:

Photometric determination of peroxides by catalytic oxidation of an indicator using peroxidase

 Range:
 $0.03 - 2.00 \text{ mg/L } \text{H}_2\text{O}_2$

 Factor:
 01.18

 Wavelength (HW = 5 - 12 nm):
 620 nm

 Reaction time:
 5 min (300 s)

 Reaction temperature:
 $20 - 25 \,^{\circ}\text{C}$

Contents of reagent set:

20 test tubes Peroxide 2 1 test tube with 5 mL Peroxide 2 R2 1 tube *NANOFIX* Peroxide 2 R3

Hazard warning:

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

Interferences:

Strong oxidizing agents interfere.

The following ions will not interfere:

- ≤ 1000 mg/L ammonium, calcium, cadmium, manganese, EDTA, borate, chloride, nitrate, phosphate, sulphate, thiocyanate;
- \leq 100 mg/L copper, nickel, silicon, nitrite, anionic surfactants;
- \leq 10 mg/L chromium(VI), iron(III), mercury, cationic surfactants;
- \leq 0.1 mg/L cyanide.
- The method can also be applied for the analysis of sea water.

Procedure:

Requisite accessories: piston pipette with tips

Test sample	Blank value
Open test tube, add	Open test tube, add
4.0 mL test sample (the pH value of the	4.0 mL distilled water and
sample must be between pH 4 and	
<i>10)</i> and	
200 µL (= 0.2 mL) R2, close and mix.	200 µL (= 0.2 mL) R2, close and mix.
Add	Add
1 NANOFIX R3, close and mix.	1 NANOFIX R3, close and mix.
Clean outside of test tube and	Clean outside of test tube and
measure after 5 min.	measure after 5 min.

Measurement:

For *NANOCOLOR*[®] photometers and PF-10/PF-11/PF-12 see manual, test 8-71. For each analysis a blank value is required.

Photometers of other manufacturers:

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

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