REF 985 006

en

Test 0-06 06.11
NANOCOLOR® Ammonium 200

Method:
Photometric determination as indophenol: At a pH value of about 12.6 ammonium reacts with hypochlorite and salicylate in the presence of sodium nitroprussiate as catalyst to form a blue indophenol.

Range:	**30–160 mg/L NH_4-N**	**40–200 mg/L NH_4^+/NH_3**
Factor:	**0116.**	**0150./0142.**
Wavelength (HW = 5–12 nm):	**585 nm**	
Reaction time:	**15 min (900 s)**	
Reaction temperature:	**20–25 °C**	

Contents of reagent set:
20 test tubes Ammonium 200
1 tube *NANOFIX* Ammonium 200 R2
1 test tube with blank value "NULL"

Hazard warning:
Reagent Ammonium 200 R2 contains hazards which are not labelled with <Xn> (certificate of exemption for small quantities), see safety data sheet.

Preliminary tests:
If the order of magnitude of the concentration in a sample is not known, a preliminary test with QUANTOFIX® Ammonium (10–400 mg/L NH_4^+, REF 913 15) rapidly gives this information. From the order of magnitude the required dilution can be calculated and prepared directly.

Interferences:
The photometric analysis of water samples with own color or turbidity always requires determination of a correction value.

The method can be applied also for the analysis of sea water.

Procedure:
Requisite accessories: piston pipette with tips

Open test tube, add
0.2 mL (= 200 µL) test sample *(the pH value of the sample must be between pH 1 and 13)* and
1 ***NANOFIX*** Ammonium 200 R2, close and mix.
(Close NANOFIX tube immediately after use.)
Clean outside of test tube and measure after 15 min.

Measurement:
For *NANOCOLOR*® photometers and PF-10/PF-11/PF-12 see manual, test 0-06.

Measurement when samples are colored or turbid:
For all *NANOCOLOR*® photometers see manual, chapter 5.11., use key for correction value.

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.

Analytical quality control:
NANOCONTROL Multistandard Seepage water (REF 925 013)

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