

REF 985 002

en

Test 0-02

06.15

NANOCOLOR® Ammonium 2000**Method:**

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

Range:	300–1600 mg/L NH ₄ -N	400–2000 mg/L NH ₄ ⁺ /NH ₃
Wavelength (HW = 5–12 nm):	585 nm	
Reaction time:	15 min (900 s)	
Reaction temperature:	20–25 °C	

Contents of reagent set:**Box A:** 20 test tubes A**Box B:** 20 test tubes NH₄ 20001 tube *NANOFIX* Ammonium 2000 R2**Hazard warning:**

Reagent R2 contains sodium nitroprusside 5–33% and dichloroisocyanuric acid sodium salt 10–20%.

For further information ask for a safety data sheet.

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

A) Dilution (Box A)

Open **tube A**, add
500 µL test sample (*the pH value of the sample must be between pH 1 and 13*), close and shake vigorously.

B) Analysis (Box B)

Open **test tube NH₄ 2000**, add
200 µL (= 0.2 mL) **solution A** and
1 NANOFIX 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-12 see manual, test 0-02.

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 factor for each type of instrument by measuring standard solutions.