

Nitrate Field Test Kit (Range 0.5-50 ppm)

▶ Package contents

1) Reaction bottle	3 piece
2) Syringe (3 ml.)	1 piece
3) Syringe (1 ml.)	1 piece
4) Cotton bud	20 piece
5) Reagent Nta 1	1 bottle
6) Reagent Nta 2	1 bottle
7) Plastic bag (paper strip) Nta 3	4 piece

▶ Procedure

Step 1 Nitrite Determination

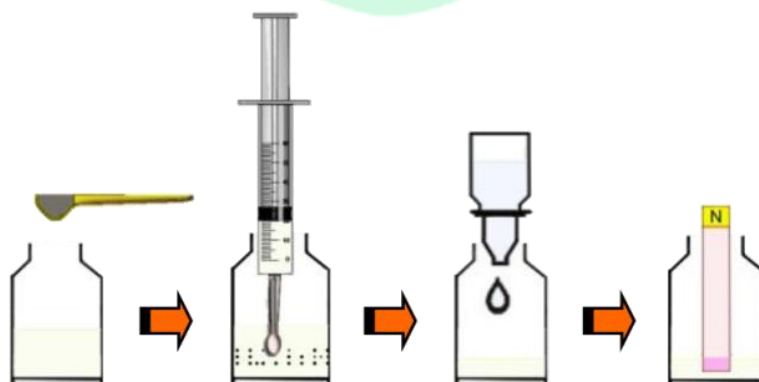
- Add 1 ml. of water sample onto the Reaction bottle 1 with Syringe 1 ml. – contained – syringe.
- Add 2 drop of Reagent Nta 2 and swirl gently to mix the solution.
- Immerse the strip Nta 3 into the solution.
- Compare the developed color with standard color scale and note down the obtained concentration of Nitrite.

Step 2 Nitrate Determination








- Add 2.5 ml. of water sample into Reaction bottle 2 with 3 ml. – contained – syringe.
- Add 1 spoon of Reagent Nta 1 and swirl to mix for 1 minute.
- Suck 1 ml. of the solution with attachable – cotton bud – syringe.
- Remove the cotton bud and transfer the solution into the reaction bottle 3
- Continue the procedure as in Nitrite Determination.

Step 3 Nitrate Correction

$\text{NO}_3^- = \text{NO}_3^- \text{ read from color scale} - (\text{NO}_2^- \text{ read from color scale} \times 50)$



▶ Standard color scale

Color Scale							
Nitrate Concentration (ppm N)	0.0	0.5	2.5	5.0	10.0	25.0	50.0
Nitrite Concentration (ppm N)	0.0	0.01	0.05	0.1	0.2	0.5	1.0

▶ Cautions

- 1) Immediately close all reagent containers after use.
- 2) Avoid contact of liquid reagents with skin and eyes.
- 3) Always wash your hands after using the kit.
- 4) Keep the kit out of direct sunlight and away from heat, food, pets, and the reach of children.

▶ Information on chemicals

Reagent Nta 2 contains corrosive reagent that can cause severe burns to skin and eyes.

Harmful if swallowed.



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