

QUANTOFIX® Nitrate/Nitrite

Pack content:

1 aluminum container with 100 test strips

Measuring range:

Visually	Reflectometrically
10–500 mg/L NO_3^-	10–500 mg/L NO_3^-
1–80 mg/L NO_2^-	0.5–80 mg/L NO_2^-

Color gradation:

0 · 10 · 25 · 50 · 100 · 250 · 500 mg/L NO_3^-
0 · 1 · 5 · 10 · 20 · 40 · 80 mg/L NO_2^-

General indications:

Remove only as many test strips as are required. Close the container immediately after removing a strip. Do not touch the test fields.

Instructions for use:

1. Dip the test strip with both fields into the test solution (pH 1–9) for 1 s.
2. Shake off excess liquid.
3. Wait 60 s.
4. Compare with the color scale. If nitrate ions are present, the lower test field (at the end of the strip) will turn red-violet. The upper test field will show the nitrite concentration.

Interferences (Nitrate):

If the nitrite test field turns red-violet, the nitrate determination will be affected. To eliminate the interference due to nitrite, add 1 spoon sulfamic acid (REF 918 973) to 10 mL of the sample, shake again and repeat the test after 2 minutes. This allows the determination of 10 mg/L nitrate and 1000 mg/L nitrite simultaneously.

Interferences (Nitrite):

Strongly acid solutions (pH < 1) have to be buffered with sodium acetate; alkaline solutions have to be set to a pH value of 3–5 using citric acid. The following ions interfere with the determination in higher concentrations:

> 1000 mg/L Br^- , BrO_3^- , Cl^- , ClO_3^- , ClO_4^- , F^- , J^- , $\text{Mo}_7\text{O}_{24}^{6-}$, NO_3^- , OCN^- , PO_4^{3-} , SO_3^{2-} , SO_4^{2-} , SeO_3^{2-} , WO_4^{2-} , acetate, oxalate, tartrate, citrate, succinate, Ag^+ , Al^{3+} , As^{3+} , Ba^{2+} , Be^{2+} , Co^{2+} , Cd^{2+} , Cr^{3+} , Cu^{2+} , Hg^{2+} , K^+ , Li^+ , Mg^{2+} , Mn^{2+} , Na^+ , Ni^{2+} , Pb^{2+} , Sb^{3+} , Ti^+ , Zn^{2+} , > 250 mg/L $\text{S}_2\text{O}_3^{2-}$, $\text{S}_2\text{O}_5^{2-}$, > 100 mg/L $[\text{Fe}(\text{CN})_6]^{4-}$, $\text{S}_2\text{O}_4^{2-}$, SCN^- , ascorbate.

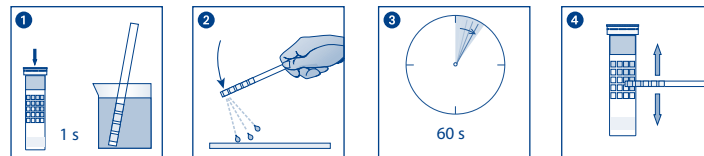
Disposal:

Used test strips can be placed in the normal household waste.

Storage:

Avoid exposing the strips to sunlight and moisture. Keep container cool and dry (storage temperature not above +30 °C).

If correctly stored, the test strips may be used until the use-by-date printed on the packaging.



Product data and ordering information

Type	Semi-quantitative test strips
Presentation	Tube of 100 test strips
Color reaction	white to red-violet
Gradation	0 · 10 · 25 · 50 · 100 · 250 · 500 mg/l (ppm) NO_3^- (Nitrate) 0 · 1 · 5 · 10 · 20 · 40 · 80 mg/l (ppm) NO_2^- (Nitrite)
REF	91313