

Why Test Nitrate?

Nitrate (NO₃⁻) is a compound that forms as a result of the natural breakdown of waste in an aquarium. It is continually produced as fish respire and released waste products move through the ammonia cycle. While nitrate is less harmful than ammonia and nitrite, it can still be toxic to fish and other aquatic creatures if it accumulates in high levels. High nitrate levels can lead to poor water quality, unwanted algae growth, and even stress or death to the inhabitants of the aquarium. Therefore, it is essential to test nitrate levels regularly and keep them at a safe and low level for the aquatic inhabitants.

Excess nitrates can cause stress and other water quality issues, even though they are not directly harmful to fish at low levels. Routine maintenance is necessary to keep nitrate concentrations low for a healthy aquarium. Nitrate can accumulate and rise rapidly if not adequately maintained.

Generally, nitrate levels should be below 40 ppm (parts per million) in freshwater aquariums and below 20 ppm in saltwater aquariums, depending on the specific types of fish and other organisms present.



WARNING

NITRATE TEST SOLUTION #2

Wear protective gloves / protective clothes / eye protection / face protection • If exposed or concerned: Get medical advice/attention • Store locked up • Dispose of contents/container to authorized chemical landfill or if organic to high temperature incineration.

DANGER

NITRATE TEST SOLUTION #1

May be corrosive to metals • Harmful if inhaled - Causes severe skin and eye damage • Causes serious eye irritation • May cause respiratory irritation • Do not breathe dust/fume/gas/mist/vapors/spray • Use only outdoors or in a well-ventilated area • Keep only in original container • IF SWALLOWED: Rinse mouth • DO NOT induce vomiting • IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing • Immediately call a POISON CENTER/doctor/physician/first aider • Specific treatment (see advice on this label) • If eye irritation persists: Get medical advice/attention • Wash contaminated clothing before use • Absorb spillage to prevent material damage • IF INHALED: Remove person to fresh air and keep comfortable for breathing • Store locked up • Store in a well-ventilated place • Keep container tightly closed • Dispose of contents/container to authorized chemical landfill or if organic to high temperature incineration.

FRITZ
AQUATICS

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NITRATE NO₃⁻ TEST KIT

INSTRUCTIONS

FOR FRESH & SALTWATER AQUARIUMS



Directions for Testing Nitrate Levels

NOTE: Read instructions thoroughly before testing.

⚠ DO NOT allow Test Solutions to get into aquarium.

To remove childproof safety cap, push down while turning.

- 01** Fill a clean test tube with **5 ml** of water to be tested (to the line on the tube).
- 02** **Add 10 drops** from **Nitrate Test Solution Bottle #1**, holding dropper bottle upside down in a completely vertical position to ensure uniformity of drops added to the water sample.
- 03** Cap the test tube and gently shake several times to mix solution. Attention! Always use the cap. Avoid skin contact as this may affect the test results.
- 04** **Vigorously shake** the **Nitrate Test Solution Bottle #2** for at least **30 seconds**. This step is extremely important to ensure accuracy of test results.
- 05** **Add 10 drops** from **Nitrate Test Solution Bottle #2**, holding dropper bottle upside down in a completely vertical position to ensure uniformity of drops to the water sample.
- 06** **Cap the test tube** and **shake for one minute**. This step is extremely important to ensure accuracy of test results.
- 07** Wait **five minutes** for the color to develop.
- 08** Read the test results by matching the color of the solution against those on the Nitrate Test Color Chart.



0 ppm



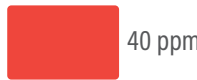
5 ppm



10 ppm



20 ppm



40 ppm



80 ppm



160 ppm

For best results the tube should be viewed against the white area beside the color chart in a well-lit area with a light source behind you. The closest match indicates the Nitrate in the water sample. Rinse the test tube with clean water after each use.

Corrective Actions

✓ Regular biweekly / monthly water change

✓ Treat replacement water with **Fritz Product Name** to greatly reduce fish stress and the chance of infection.