


HI781

Marine Nitrate Low Range

Handheld Colorimeter

- Ideal for aquariums and marine biology
- Easier to use and more accurate than chemical test kits
- Small size, big convenience

Nitrate is a by-product of the Nitrogen Cycle. Excessive amounts of nitrates in a reef aquarium can promote the growth of undesirable organisms including algae and dinoflagellates while insufficient amounts can lead to starvation in which SPS and other corals will show signs including the loss of color and paleness.

The HI781 Nitrate Checker HC is a handheld colorimeter that uses the Beer-Lambert principle to determine the concentration of nitrate colorimetrically. The HI781 is designed specifically to measure low levels of nitrate in a saltwater aquarium. The 0.00 to 5.00 ppm range is ideal for reef aquarium maintenance.

Specifications	HI781 (LR)
Range	0.00 to 5.00 ppm (as NO ₃ ⁻) 0.0 to 50.0 ppm (calculated) using dilution
Resolution	0.01 ppm
Accuracy	0.25 ppm ±2% of reading @ 25 °C (77 °F) ±2.5 ppm ± 5% of calculated reading using dilution
Light Source	Light Emitting Diode @ 525 nm
Light Detector	Silicon photocell
Method	Zinc Reduction method. The reaction between nitrate and the reagent causes a pink/violet tint in the sample. This checker has been developed to work with seawater samples.
Interferences	Nitrite, copper
Environment	0 to 50 °C (32 to 122 °F); max. 95% RH non-condensing
Battery Type	1.5V AAA Alkaline
Auto-off	After 10 minutes of non-use
Dimensions	86.0 x 61.0 x 37.5 mm (3.4 x 2.4 x 1.5")
Weight	64 g (2.3 oz)
Ordering Information	HI781 Checker HC is supplied with Marine Nitrate Low Range reagent starter kit (reagents for 25 tests), sample cuvette and cap (2 pcs.), filter paper (25 pcs.), filter holder (1 pc.), mixing vial and cap (1 pc.), 5 mL syringe with tip (1 pc.), 10 mL syringe (1 pc.), 1 mL graduated syringe (1 pc.), plastic refilling pipette (1 pc.), 16 gauge blunt needle (1 pc.), 1.5V AAA alkaline battery (1 pc.), and instruction manual.
Reagent Set	HI781-25 Reagents for 25 Marine Nitrate Low Range tests
Calibration Set	HI781-11 Marine Nitrate Low Range certified standard kit