



HI783

Marine Magnesium

Handheld Colorimeter

- Easier to use and more accurate than chemical test kits
- Dedicated to a single parameter
- Small size, big convenience
 - Weighing a mere 64 g (2.25 oz.), the Checker®HC easily fits into the palm of your hand or pocket
 - Quick and accurate on-the-spot analysis
 - Single-button operation: zero and measure
- Ideal for:
 - Aquariums
 - Marine biology

Magnesium is the third most abundant ion in seawater, surpassed only by sodium and chloride. Its abundance is critical in the formation of weak ion pairs with carbonate ions. This allows calcium and carbonate ions to be available for uptake by corals and invertebrates. Low levels of magnesium lead to low or unstable levels of calcium and alkalinity. Signs of low magnesium levels include precipitation of calcium as insoluble calcium carbonate and impaired inhabitant growth and health.

The HI783 Marine Magnesium Checker®HC is a handheld colorimeter that uses the Beer-Lambert principle to determine the concentration of magnesium colorimetrically. The HI783 is designed specifically to measure magnesium levels in a saltwater aquarium or in marine biology applications. The 1000 to 1800 ppm range is ideal for coral/fish or fish-only aquarium maintenance.



Specifications	HI783
Range	1000 to 1800 ppm Magnesium
Resolution	5 ppm
Accuracy	±5% of reading @ 25 °C (77 °F)
Light Source	Light Emitting Diode @ 610 nm
Light Detector	Silicon photocell
Method	Adaptation of the colorimetric EDTA method using calmagite indicator. The reaction between magnesium and the reagents causes a blue to violet tint in the sample.
Environment	0 to 50 °C (32 to 122 °F); max. 95% RH non-condensing Prepared sample cuvette (sample plus reagents) must be 22 to 28 °C (72 to 82 °F).*
Battery Type	1.5V AAA Alkaline
Auto shut-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)
Interferences	Calcium below 300 ppm and above 500 ppm
Ordering Information	HI783 Checker®HC is supplied with sample cuvette and cap (2 pcs.), Marine Magnesium reagent starter kit (reagents for 25 tests), 5 mL syringe (black printing) and tip (1 pc.), 5 mL syringe (blue printing) and tip (1 pc.), 1.5V AAA Alkaline battery (1 pc.), instruction manual, and quick-reference guide.
Reagent Set	HI783-25 Reagents for 25 Marine Magnesium tests
Calibration Set	HI783-11 Marine Magnesium certified standard kit

* Warm or cool prepared cuvettes if needed.