

HI3823

## Marine Test Kit

HI 3823 provides users with the most important test parameters for aquaculture applications: alkalinity, carbon dioxide, dissolved oxygen, hardness, pH and salinity.

Each of these parameters plays a critical role in the delicate balance of the aquatic environment: alkalinity acts as a stabilizer for pH; carbon dioxide must be monitored because of its toxic effects on fish (every species can tolerate different levels of  $\text{CO}_2$ ); oxygen levels affect fish respiration and incorrect concentrations can slow down their growth rate; hardness is monitored because it diminishes the toxicity level of ammonia; pH also is measured to determine the toxicity level of the water; salinity is important because of its relation to dissolved oxygen.

- **Complete setup**
  - All required materials are included with the test kit, such as the pH tester, sample beaker, indicator and reagent bottles and packets, and glass bottle for dissolved oxygen.
- **High resolution**
  - All tests provide a high resolution based on the expected range of measurement.
- **Replacement reagents available**
  - There is no need to buy a new kit when reagents are exhausted. The reagents for each parameter can be ordered individually.



Specifications	HI3823 Marine Test Kit				
Test	Type	Range	Smallest Increment	Method	Number of Tests
Alkalinity (as $\text{CaCO}_3$ )	titration	0-100 mg/L (ppm) 0-300 mg/L (ppm)	1 mg/L (ppm) 3 mg/L (ppm)	phenolphthalein/ bromphenol blue	110 avg.
Carbon Dioxide	titration	0.0-10.0 mg/L (ppm) 0.0-50.0 mg/L (ppm) 0-100 mg/L (ppm)	0.1 mg/L (ppm) 0.5 mg/L (ppm) 1 mg/L (ppm)	phenolphthalein	110 avg.
Hardness (as $\text{CaCO}_3$ )	titration	0.0-30.0 mg/L (ppm) 0-300 mg/L (ppm)	0.3 mg/L (ppm) 3 mg/L (ppm)	EDTA	100 avg.
Oxygen, Dissolved	titration	0.0-10.0 mg/L (ppm)	0.1 mg/L (ppm)	modified Winkler	110 avg.
pH	electronic pH tester	0.0-14.0 pH	0.1 pH	–	life of the meter
Salinity	titration	0.0-40.0 g/kg	0.4 g/kg	mercuric nitrate	110 avg.
Dimensions	440 x 330 x 100 mm (17.3 x 13.0 x 3.9")				
Ordering Information	HI3823 test kit includes all reagents and accessories necessary to perform over 100 tests for each parameter, electronic pH tester, hard carrying case and instructions.				
Reagents	<b>HI3811-100</b> Alkalinity (as $\text{CaCO}_3$ ), 110 tests avg. <b>HI3818-100</b> Carbon Dioxide, 110 tests avg. <b>HI3812-100</b> Hardness, total (as $\text{CaCO}_3$ ), 100 tests avg. <b>HI3810-100</b> Dissolved Oxygen, 110 tests avg. <b>HI70004P</b> pH 4.01 buffer solution, 20 mL sachets (25) <b>HI70007P</b> pH 7.01 buffer solution, 20 mL sachets (25) <b>HI70010P</b> pH 10.01 buffer solution, 20 mL sachets (25) <b>HI3835-100</b> Salinity, 100 tests avg.				

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