Aquaculture

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

Each of these parameters plays a fundamental role in the correct balance of the aquatic environment: alkalinity acts as a stabilizer for pH; carbon dioxide must be monitored because it is a toxic element for fish (every species can stand different levels of CO_2); oxygen levels affect the 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.

This test kit is supplied complete with all the reagents necessary to perform over 100 tests of each parameter, and relies on our popular pH electronic tester, pHep®, for pH measurements.

The kit is supplied in a hard carrying case, ideal for testing in the field.

Spare reagents are available individually (see section V for a detailed listing of spare reagents).

HI 3823 - Combination Test Kit for Aquaculture

Parameter	Method	Range*	Smallest Increment	Chemical Method	Number of Tests
Alkalinity (as $CaCO_3$)	Titration	0-100 mg/L 0-300 mg/L	1 mg/L 3 mg/L	Phenolphthalein/ Bromphenol blue	approx. 110
Carbon Dioxide (as CO_2)	Titration	0.0-10.0 mg/L 0.0-50.0 mg/L 0-100 mg/L	0.1 mg/L 0.5 mg/L 1 mg/L	Phenolphthalein	approx. 110
Hardness (as $CaCO_3$)	Titration	0.0-30.0 mg/L 0-300 mg/L	0.3 mg/L 3 mg/L	EDTA	approx. 100
Oxygen, Dissolved	Titration	0.0-10.0 mg/L	0.1 mg/L	Modified Winkler	approx. 110
pH	Electronic pH tester	0.0-14.0 pH	0.1 pH	—	life of the meter
Salinity	Titration	0-40 g/Kg	0.4 g/Kg	Mercuric Nitrate	approx. 110

Other Information

Dimensions	440 x 330 x 100 mm (17.3 x 13.0 x 3.9")
Weight	2.3 kg (5.1 lb.)

* 1 mg/L = 1 ppm; 1 g/Kg = 1 ppt

For spare reagents, see section V. For accessories, see section U.