

IODINE (I₂) TEST KIT

Contents:

Iodine powder A and spoon
Iodine reagent B
Iodine reagent C
6ml syringe
2 x glass vials
Iodine supplement solution & dropper

WARNING INFORMATION



HARMFUL



CORROSIVE

Contains - Sodium Nitrite, Nitric Acid

Irritating to eyes.

Causes severe burns.

Harmful if swallowed.

Irritating to respiratory system. Irritating to skin.

Wear suitable gloves and eye/face protection.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, wash off immediately with plenty of water.

Keep locked up and out of reach of children.

Keep container tightly closed.

If swallowed seek medical advice immediately and show this container or label.

Iodine in the Aquarium

Iodine is considered an essential element for certain biological processes in many marine animals and as such it is paramount to be able to measure and maintain the correct levels in your marine aquarium.

Iodine is present in seawater in many different forms, with only some being biologically available for our aquarium inhabitants to utilise. Total iodine concentrations in seawater can vary from one location to another and by depth however the average total iodine concentration of natural seawater is measured at 0.06ppm.

Whilst fish can gain their required amounts via the food they eat, corals and other invertebrates take up iodine directly from the surrounding water at different rates from one species to the next with gorgonians, micro and macro algae being primary consumers.

Iodine levels within marine aquaria should be monitored regularly. Although it is provided at natural levels of 0.06ppm in our H₂Ocean Pro+ Reef Salt it becomes depleted quickly and must therefore be maintained by regular supplementation.

This high sensitivity iodine test kit will allow the user to simply and accurately measure levels so that they may be maintained by way of water changes or scheduled dosing.

Accuracy of this test is further improved by the use of a 'standard' that is created during each test which sets a known comparison point.

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The Aquarium Solution

Instructions available for download at our website:

www.theaquariumsolution.com

ADDITIONAL SUPPLEMENT AND TEST KIT REFILLS AVAILABLE.

Instructions for use.

Important:

A - Rinse all test tubes, stopper/caps and syringes in reverse osmosis or de-ionized water several times before and after use to eliminate contamination which will affect the accuracy of the test kit.

B - Store the kit in a cool dry location away from direct sunlight.

C - Cross contamination of syringes, stopper caps or test tubes will result in false readings.

READ IN COMBINATION WITH THE PICTOGRAPHIC INSTRUCTIONS ON THE TEST CARD

Step 1-2: Using the 6 ml syringe supplied, measure out **5 ml** of reverse osmosis or de-ionised water into the vial marked 'standard'. Next measure out **5 ml** of the sample water to be tested into the second vial and fit the stoppers to both vials.

Step 3: For the test to give the correct reading it is important that the water in both vials is at the same temperature so that the reactions proceed at the same rate.

To achieve this fill a cup or jug with water from the aquarium and float both vials in the water for **10 minutes** allowing the temperatures to equalise. After this period remove the two vials, dry off any excess water and remove both stoppers.

Step 4-5: Add **1 level measuring spoon** of Iodine standard powder A to the water in the 'standard' vial, insert the stopper and shake until fully dissolved. Replace lid on Iodine standard powder container immediately.

Step 6: Shake both reagent B and C bottles vigorously. Add **5 drops** of Reagent B then immediately afterwards 8 drops of Reagent C to both 'standard' and 'sample' vials. Swirl gently for 5 seconds. Replace the caps for both reagent bottles immediately after use.

Step 7: Using the colour comparison chart, position the standard vial on the 'standard swatch on the card. Stand the sample alongside it on the 0.06 position.

At this stage, when viewed in good light from above, the colour of both sample and standard are likely to be darker than the surrounding printed swatch. This is normal.

Wait: The colour of both the sample and standard will become lighter over the next few minutes. When the colour of the 'standard' matches the standard swatch on the colour chart then this is the end point of the test.

Immediately move the sample vial up and down the colour card until it matches one of the swatches. This allows you to read off the concentration of iodine in your sample .

Step 8: Rinse all test tubes, stopper/caps and syringes in reverse osmosis or de-ionized water several times to eliminate contamination which may affect the accuracy of the test kit.

Iodine Supplement

If levels within the aquarium are found to be below 0.06 ppm then use the iodine supplement supplied with this test kit to raise the level using the correct dose as indicated on the bottle.

Caution: Overdosing iodine into the aquarium is dangerous and levels above 0.09 ppm may lead to loss of corals.