TEST KIT (ชุดทดสอบ)

TEST KIT FOR FOOD (ชุดทดสอบอาหาร)

SULPHITE TEST KIT (ชุดทดสอบซัลไฟต์)

HI 3822 Sulfite

There are many reasons to monitor **sulfite** concentration in water. In industrial applications, a sulfite concentration of approximately 20 mg/L must be maintained to prevent pitting and oxidation of metal components as in boiler feed and effluent waters. A high level of sulfite results in a lowered pH, thus promoting corrosion. The monitoring of sulfite is important in environmental control. Sulfite ions are toxic to aquatic lifeforms and their ability to remove dissolved oxygen in water will destroy the delicate balance of ecology of lakes, rivers and ponds.

Zinc is widely used in alloys (brass, bronze, and dye-casting alloys), in galvanizing iron and other metals, and also as a fungicide. It is also an essential growth element in human diet. But with concentrations higher than 5 mg/L, it gives a bitter taste to water and opalescence to alkaline water.

Zinc can enter the domestic water supply from the deterioration of galvanized iron and dezincification of brass.

METHOD	RANGE	SMALLEST INCREMENT	CHEMICAL METHOD	# TESTS	WEIGHT
HI 3822 Sulfite (as Na_2SO_3)					
titration	0.0-20.0 mg/L (ppm) 0-200 mg/L (ppm)	0.2 mg/L (ppm) 2 mg/L (ppm)	iodometric	110 avg.	910 g
HI 3854 Zinc (as Zn^{+2})					
colorimetric	0.0-3.0 mg/L (ppm)	0.6 mg/L (ppm)	zincon	100	250 g
HI 38076 Zinc (as Zn^{+2})					
checker disc	0.0-4.0 mg/L (ppm) 0.0-20.0 mg/L (ppm)	0.1 mg/L (ppm) 0.4 mg/L (ppm)	zincon	100	647 g

HI 3822 Sulfite Test Kit

The HANNA sulfite test kit makes monitoring easy, quick and safe. The compact size gives the user the versatility to use the kit practically anywhere. The design of the kit makes it practically impossible to spill the reagents, thereby reducing the possibility of injury or damage to property.

The method used is an iodometric method. Iodide ions react with iodate ions in the presence of sulfuric acid to form iodine.

The sulfite present in the water sample then reduces the iodine back to iodide.

An excess of iodate ions will generate additional iodine, which will form a blue complex with starch. This color change determines the end point of this titration.

HI 3854 Zinc Test Kit

Zinc reacts with the zincon reagent to form a brownish-green to blue complex in a solution buffered at alkaline pH.

Since other metals can form colored complexes with zincon, cyanide is added to complex zinc and any other heavy metal present. Then, cyclohexanone is added to selectively free zinc from its cyanide complex so that it can react with zincon to form the final blue colored product. The amount of color developed is proportional to the concentration of zinc present in the aqueous sample.

HI 38076 Zinc Test Kit
with Checker Disc

ORDERING INFORMATION

HI 3822 test kit comes with 30 mL sulfamic acid solution, 30 mL EDTA reagent, 15 mL sulfuric acid solution, 10 mL starch indicator, 120 mL titrant solution, 20 mL calibrated vessel, 50 mL calibrated vessel and calibrated syringe with tip.
HI 3854 test kit comes with 100 packets zinc reagent A, 60 mL zinc reagent B (2), color comparison cube, 10 mL glass cuvette with HDPE stopper, 1 mL syringe, 20 mL calibrated vessel and plastic spoon.
HI 38076 test kit comes with 100 packets zinc reagent A, 100 mL zinc reagent B, demineralizer bottle with filter cap for 12 L, checker disc, glass vials with caps, long plastic pipette, 3 mL plastic pipette and 1 mL syringe with tip.

ACCESSORIES

HI 3822
HI 3822-100 Spare reagent for 100 tests
HI 3854
HI 3854-100 Spare reagent for 100 tests
HI 38076
HI 38076-100 Spare reagent for 100 tests

❖ **HI3822 SULFITE TEST 0-200 PPM (110 TEST) *"HANNA"***

Alert

For Sulfites

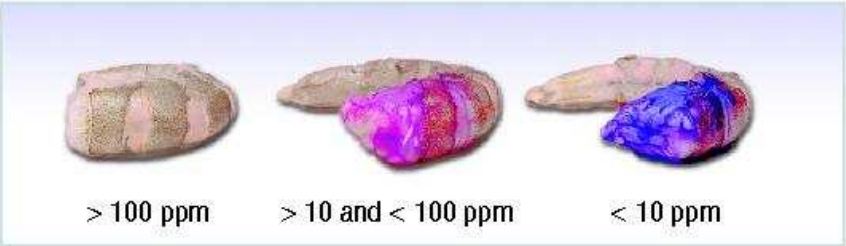
Intended Use

Alert for Sulfites is a very simple and rapid semi-quantitative test for detecting sulfite residues in shrimp.

Product Specifications

Sensitivity:	< 10 ppm;
	> 10 ppm to < 100 ppm;
	> 100 ppm
Testing time:	1 minute
Storage:	Room temperature (18–30°C)
Tests per kit:	200

Results



❖ **9500 SULPHITE DETECTION KIT <10 TO >100 PPM (200 TEST) *"ALERT"***

Specification

1.10013.0001 Sulfite Test Method: colorimetric with test strips 10 - 40 - 80 - 180 - 400 mg/l SO_3^{2-} MQuant™

Specification

❖ **110013.0001 SULFITE TEST MERCKOQUANT 10-400 PPM (100 TEST) *"MERCK"***

RANGE : 10 - 40 - 80 - 180 - 400 PPM

QUANTOFIX® Sulfite **REF 913 06**

This test strip is for the fast and reliable determination of sulfite in solutions. The easy Dip & Read procedure provides a reliable result within 20 seconds.

In process and boiler water, sulfite is used as an oxygen scavenger. To avoid overdosage, the concentration needs to be controlled regularly. These tests are also used to control the sulfite concentration in foodstuff treated with sulphur compounds (SO_2, HSO_3^-, SO_3^{2-}) for longer shelf-life. In the process of wine making the control of sulfite is important to monitor production and quality of the wine.

Type:	test strips
Range:	0 · 10 · 25 · 50 · 100 · 250 · 500 · 1000 mg/L SO_3^{2-}
Sufficient for:	100 tests
Shelf life:	at least 2.5 years after production
Color change:	white → salmon

❖ **91306 SULPHITE TEST QUANTOFIX 0-1000 PPM (100 TEST) *"MN"***

RANGE : 0 - 10 - 25 - 50 - 100 - 250 - 500 - 1000 PPM