Single Parameter Test Kits

Addity Autisigy (a Sedicine acing) Intention 0.001 copy/ (nom) 110 ergs 13397C 3.0 Allality Allality (as 2002) criticion 2.000 mg/t (pem) 10 ergs H8811 2.0 Allality Principi/ Intendential controlled criticion 2.000 mg/t (pem) 25 wg 18384 31 Ammonia Principi/ (pem) (as MH-P) colorinetric 0.025 mg/t (pem) 25 wg 18384 31 Boron 80 for citatolo 0.0-25 mg/t (pem) 100 183874 32 Carbon Doxide darbon Doxide titation 0.0-30 mg/t (pem) 100 wg 183818 33 Choride Choride (sc Cr) titation 0.0-30 mg/t (pem) 100 wg 183818 33 Choride Choride (sc Cr) titation 0.0-30 mg/t (pem) 100 wg 183818 33 Choride Choride (sc Cr) titation 0.0-30 mg/t (pem) 100 wg 183818 31 Choride Choride (sc Cr) titation 0.0-20 mg/t (pem) 50 wg		Parameter	Method	Range	# of Tests	Code	Page
Maintay Machano Matterior Matterior Maintay		Acidity (as % Oleic acid)	titration	0.00 - 1.00 % acidity	6	HI3897	9.8
Ammonia (s.) Nil-y-li)	Acidity		titration		110 avg.	HI3820	9.10
Ammonia Chessistators Colorinetric Colorin	Alkalinity		titration		110 avg.	HI3811	9.10
Botton Serious Seri	Ammonia		colorimetric	0.0-2.5 mg/L (ppm)	25 avg.	HI3824	9.11
Promine Pro	Allillollia		colorimetric	0.0-2.5 mg/L (ppm)	25 avg.	HI3826	9.11
Carbon Dioxide Carbon Dioxide titration 0.0 1.00 mg/L (ppm);	Boron	Boron	titration	0.0-5.0 mg/L (ppm)	100	HI38074	9.12
Carbon Dioxide Carbon Dioxide Itiration 0.500 might (ppm): 0.100 mght (ppm): 0.100 mght (ppm) 110 avg. 118815 9.13 Chioride Chloride (asCT) titration 0.100 mght (ppm): 0.100 mght (ppm) 110 avg. 118815 9.13 A principal Control Chlorine Free colorimetric 0.0 - 25 mght (ppm) 50 avg. 118381 9.14 Chlorine Free Chlorine Free checker disc 0.0 - 35 mght (ppm) 200 118301 9.15 Chlorine Free & Total checker disc 0.00 - 0.70 mght (ppm): 0.00 mght (ppm) 200 1183020 9.16 Chlorine Free & Total checker disc 0.00 - 27 mght (ppm): 0.00 mght (ppm) 200 1183020 9.16 Chlorine Free & Total checker disc 0.00 - 27 mght (ppm): 0.00 mght (ppm) 200 1183020 9.16 Chromium Chlorine Free & Total checker disc 0.00 - 27 mght (ppm) 200 1183020 9.16 Chromium (as CrVI) colorimetric 0.0 - 25 mght (ppm) 50 avg. 1183020 9.17 Chromium (as CrVI) colorimetric 0.0 - 25 mght (ppm) 100 avg. 118302 </td <td>Bromine</td> <td>Bromine</td> <td>colorimetric</td> <td>0.0-3.0 mg/L (ppm)</td> <td>60 avg.</td> <td>HI3830</td> <td>9.12</td>	Bromine	Bromine	colorimetric	0.0-3.0 mg/L (ppm)	60 avg.	HI3830	9.12
Charlote	Carbon Dioxide	Carbon Dioxide	titration	0.0-50.0 mg/L (ppm);	110 avg.	HI3818	9.13
Chlorine Free Colorimetric C	Chloride	Chloride (as Cl ⁻)	titration		110 avg.	HI3815	9.13
Property		Chlorine Free	colorimetric	0.0-2.0 mg/L (ppm)	50 avg.	HI3829F	9.14
Chlorine Free checker disc 0.00-0.70 mg/L (ppm); 0.0-35 mg/L (ppm); 0.3-35 mg/L (ppm); 0.3-35 mg/L (ppm); 0.3-35 mg/L (ppm); 0.3-35 mg/L (ppm); 0.0-35 mg/L (ppm); 0.3-35 mg/L (ppm);		Chlorine Free	colorimetric	0.0-2.5 mg/L (ppm)	50 avg.	HI3831F	9.14
Chlorine		Chlorine Free	checker disc	0.0-3.5 mg/L (ppm)	100	HI3875	9.15
Chlorine Free & Total Checker disc Checker disc Chlorine Free & Total		Chlorine Free	checker disc		200	HI38018	9.15
Chlorine Free & Total checker disc 0.0-3.5 mg/L (ppm); 0.0-10.0 mg/L (ppm) 200 H188020 9.16 Chlorine Total colorimetric titration 0.0-2.5 mg/L (ppm) 50 avg. H18811T 9.17 Chromium Chromium (as CrVI) colorimetric 0.0-1.0 mg/L (ppm) 100 avg. H18862 9.18 Copper Copper colorimetric 0.0-1.0 mg/L (ppm) 100 avg. H18846 9.18 Formaldehyde Formaldehyde titration 0.1%% 0.1%% 0.10% 110 avg. H18878 9.19 Glycol divade visual Present/Absent 25 H18659 9.19 Hardness (as CaCQ ₃) Total titration 0.0-30.0 mg/L (ppm); 0-300 mg/L (ppm) 100 avg. H18842 9.20 Hardness (as CaCQ ₃) Total titration 0.150 mg/L (ppm) 50 avg. H18840 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 0.150 mg/L (ppm) 50 avg. H18842 9.22 Hydrogen Peroxide titration 0.0-2.00 mg/L (ppm) 50 avg. H18843	Chlorine	Chlorine Free & Total	checker disc	0.00-0.70 mg/L (ppm); 0.0-3.5 mg/L (ppm)	200	HI38017	9.16
Chlorine Total titration 10-200 mg/L (ppm) 100 H138023 9.17 Chromium Chromium (as CrVI) colorimetric 0.0-1.0 mg/L (ppm) 100 avg. H13846 9.18 Copper Copper colorimetric 0.0-2.5 mg/L (ppm) 100 H13847 9.18 Formaldehyde Formaldehyde titration 0.19%; 0-10% 110 avg. H13838 9.19 Glycol Glycol visual Present/Absent 25 H13859 9.19 Hardness (as CaCO ₃) Total titration 0.0-30.0 mg/L (ppm); 0-300 mg/L (ppm) 100 avg. H13812 9.20 Hardness (as CaCO ₃) Total titration 0.930 gpg 100 H13803 9.20 Hardness (as CaCO ₃) Total titration 0.150 mg/L (ppm) 50 avg. H13840 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 400-3000 mg/L (ppm) 50 avg. H13842 9.22 Hypochlorite Hypochlorite (as Cl ₂) titration 50-150 g/L (ppm) 100 avg. H13844 9.23		Chlorine Free & Total	checker disc	0.0-3.5 mg/L (ppm);	200	HI38020	9.16
Chromium Chromium (as CrVI) colorimetric 0.0-1.0 mg/L (ppm) 100 avg. H13846 9.18 Copper Copper colorimetric 0.0-1.0 mg/L (ppm) 100 avg. H13846 9.18 Formaldehyde Formaldehyde titration 0-19%; 0-10% 110 avg. H13838 9.19 Glycol Glycol visual Present/Absent 25 H13859 9.19 Hardness (as CaCO ₃) Total titration 0-30.0 mg/L (ppm); 0-300 mg/L (ppm); 0-300 mg/L (ppm); 0-300 mg/L (ppm); 0-300 mg/L (ppm) 100 avg. H13812 9.20 Hardness (as CaCO ₃) Total titration 0-30.0 mg/L (ppm) 50 avg. H13840 9.21 Hardness (as CaCO ₃) Total titration 0-150 mg/L (ppm) 50 avg. H13841 9.21 Hydrogen Peroxide titration 40-500 mg/L (ppm) 50 avg. H13842 9.21 Hydrogen Peroxide titration 50-150 g/L (ppt) 100 avg. H13843 9.22 Hydrogen Peroxide titration 50-150 g/L (ppt) 100 avg. H13843 9.23		Chloring Total	colorimetric	0.0-2.5 mg/L (ppm)	50 avg.	HI3831T	9.17
Copper Copper colorimetric 0.0-2.5 mg/L (ppm) 100 H13847 9.18 Formaldehyde Formaldehyde titration 0-1%; 0-10% 110 avg. H13838 9.19 Glycol Glycol visual Present/Absent 25 H13859 9.19 Hardness (as CaCO ₃) Total titration 0.0-30.0 mg/L (ppm); 0-300 mg/L (ppm) 100 avg. H13812 9.20 Hardness (as CaCO ₃) Total titration 0.300 mg/L (ppm) 50 avg. H13803 9.20 Hardness (as CaCO ₃) Total titration 0.150 mg/L (ppm) 50 avg. H13840 9.21 Hydrogen Seroxide titration 40-500 mg/L (ppm) 50 avg. H13842 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 500-20.00 mg/L (ppm) 50 avg. H13843 9.22 Hypochlorite Hypochlorite (as Cl ₂) titration 50150 g/L (ppt) 100 avg. H13843 9.23 Hron colorimetric 0-5 mg/L (ppm) 50 avg. H13843 9.23 <		Chiornie rotai	titration	10-200 mg/L (ppm)	100	HI38023	9.17
Formaldehyde Formaldehyde titration 0-19%; 0-10% 110 avg. H13838 9.19 Glycol Glycol visual Present/Absent 25 H13859 9.19 Hardness (as CaCO ₃) Total titration 0.0-30.0 mg/L (ppm); 0-300 mg/L (ppm); 0-300 mg/L (ppm); 0-300 mg/L (ppm) 100 avg. H13812 9.20 Hardness (as CaCO ₃) Total titration 0-30.5 mg/L (ppm) 50 avg. H13840 9.21 Hardness (as CaCO ₃) Total titration 40-500 mg/L (ppm) 50 avg. H13841 9.21 Hydrogen Peroxide titration 400-3000 mg/L (ppm) 50 avg. H13842 9.21 Hydrogen Peroxide titration 0.00-2.00 mg/L (ppm) 50 avg. H13843 9.22 Hydrogen Peroxide titration 50-150 g/L (ppt) 100 avg. H13843 9.22 Hydrogen Peroxide titration 50-150 g/L (ppm) 50 avg. H13843 9.22 Hydrogen Peroxide Hypochlorite (as Cl ₂) titration 50-150 g/L (ppm) 100 avg. H13843 9.23 <tr< td=""><td>Chromium</td><td>Chromium (as CrVI)</td><td>colorimetric</td><td>0.0-1.0 mg/L (ppm)</td><td>100 avg.</td><td>HI3846</td><td>9.18</td></tr<>	Chromium	Chromium (as CrVI)	colorimetric	0.0-1.0 mg/L (ppm)	100 avg.	HI3846	9.18
Formaldenyde	Copper	Copper	colorimetric	0.0-2.5 mg/L (ppm)	100	HI3847	9.18
Hardness (as CaCO₃) Total titration 0.30 mg/L (ppm); 0.300 mg/L (ppm); 100 avg. HI3812 9.20 Hardness (as CaCO₃) Total titration 0.30 gpg 100 HI38033 9.20 Hardness (as CaCO₃) Total titration 0.150 mg/L (ppm) 50 avg. HI3840 9.21 Hardness (as CaCO₃) Total titration 40.500 mg/L (ppm) 50 avg. HI3841 9.21 Hardness (as CaCO₃) Total titration 40.500 mg/L (ppm) 50 avg. HI3842 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 400.3000 mg/L (ppm) 50 avg. HI3842 9.21 Hypochlorite Hypochlorite (as Cl₂) titration 0.00-2.00 mg/L; 100 avg. HI3844 9.22 Hypochlorite Hypochlorite (as Cl₂) titration 50.150 g/L (ppm) 50 avg. HI3843 9.22 Hron colorimetric 0.5 mg/L (ppm) 50 avg. HI3843 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 HI38039 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 HI38040 9.23 Nitrate Nitrate (as N0₃-N) colorimetric 0.50 mg/L (ppm) 100 HI3804 9.25 Nitrate Nitrate (as N0₃-N) colorimetric 0.50 mg/L (ppm) 100 HI3804 9.25 Nitrate (as N0₃-N) colorimetric 0.50 mg/L (ppm); 100 HI38050 9.25	Formaldehyde	Formaldehyde	titration		110 avg.	HI3838	9.19
Hardness (as CaCO ₃) Total titration 0-300 mg/L (ppm) 100 avg. Hi3812 9.20 Hardness (as CaCO ₃) Total titration 0-30 gpg 100 Hi38033 9.20 Hardness (as CaCO ₃) Total titration 0-150 mg/L (ppm) 50 avg. Hi3840 9.21 Hardness (as CaCO ₃) Total titration 40-500 mg/L (ppm) 50 avg. Hi3841 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 400-3000 mg/L (ppm) 50 avg. Hi3842 9.21 Hydrogen Peroxide Hypochlorite (as Cl₂) titration 0.000-2.00 mg/L; 0.0-10.0 mg/L Hypochlorite Hypochlorite (as Cl₂) titration 50-150 g/L (ppt) 100 avg. Hi3843 9.22 Iron colorimetric 0-5 mg/L (ppm) 50 avg. Hi3834 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 Hi38039 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 Hi38040 9.23 Iron checker disc 0.0-5.0 mg/L (ppm) 100 Hi38040 9.23 Nitrate (as NO₃¬N) colorimetric 0-50 mg/L (ppm) 100 Hi38041 9.23 Nitrate (as NO₃¬N) checker disc 0.0-5.0 mg/L (ppm); 100 Hi38050 9.25 Nitrate (as NO₃¬N) checker disc 0.0-5.0 mg/L (ppm); 100 Hi38050 9.25	Glycol	Glycol	visual	Present/Absent	25	HI3859	9.19
Hardness (as CaCO₃) Total titration 0-150 mg/L (ppm) 50 avg. HI3840 9.21 Hardness (as CaCO₃) Total titration 40-500 mg/L (ppm) 50 avg. HI3841 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 400-3000 mg/L (ppm) 50 avg. HI3842 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 50-150 g/L (ppm) 100 avg. HI3844 9.22 Hypochlorite Hypochlorite (as Cl₂) titration 50-150 g/L (ppt) 100 avg. HI3843 9.22 Iron colorimetric 0-5 mg/L (ppm) 50 avg. HI3843 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 HI38039 9.23 Iron checker disc 0.0-5.0 mg/L (ppm) 100 HI38040 9.23 Nitrate (as NO₃-N) colorimetric 0-50 mg/L (ppm) 100 HI38041 9.23 Nitrate (as NO₃-N) checker disc 0.0-10.0 mg/L (ppm) 100 HI3804 9.25		Hardness (as CaCO₃) Total	titration		100 avg.	HI3812	9.20
Hardness (as CaCO ₃) Total titration 0-150 mg/L (ppm) 50 avg. H13840 9.21 Hardness (as CaCO ₃) Total titration 40-500 mg/L (ppm) 50 avg. H13841 9.21 Hardness (as CaCO ₃) Total titration 400-3000 mg/L (ppm) 50 avg. H13842 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 0.00-2.00 mg/L; 100 avg. H13844 9.22 Hypochlorite Hypochlorite (as Cl ₂) titration 50-150 g/L (ppt) 100 avg. H13843 9.22 Hypochlorite Hypochlorite (as Cl ₂) titration 50-150 g/L (ppm) 50 avg. H13843 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 H138039 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 H138040 9.23 Iron checker disc 0.0-5.0 mg/L (ppm) 100 H138041 9.23 Nitrate (as NO ₃ -N) colorimetric 0-50 mg/L (ppm) 100 H13874 9.25 Nitrate (as NO ₃ -N) checker disc water: 0-50 mg/L (ppm); 100 H138050 9.25 Nitrate (as NO ₃ -N) checker disc water: 0-50 mg/L (ppm); 100 H138050 9.25 Nitrate (as NO ₃ -N) checker disc water: 0-50 mg/L (ppm); 100 H138050 9.25 Nitrate (as NO ₃ -N) checker disc water: 0-50 mg/L (ppm); 100 H138050 9.25 High transport H138050 9.25 H138050 9.25 Hypochlorite H138040 9.21 H138050 9.25 High transport H138040 9.21 H138050 9.25 High transport H138040 9.21 H138040 9.21 H138040 9.21 H138040 9.21 H138		Hardness (as CaCO₃) Total	titration	0-30 gpg	100	HI38033	9.20
Hardness (as CaCO₃) Total titration 400-3000 mg/L (ppm) 50 avg. HI3842 9.21 Hydrogen Peroxide Hydrogen Peroxide titration 0.00-2.00 mg/L; 0.0-10.0 mg/L (ppt) 100 avg. HI3844 9.22 Hypochlorite Hypochlorite (as Cl₂) titration 50-150 g/L (ppt) 100 avg. HI3843 9.22 Iron colorimetric 0-5 mg/L (ppm) 50 avg. HI3834 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 HI38039 9.23 Iron checker disc 0.00-5.0 mg/L (ppm) 100 HI38040 9.23 Iron checker disc 0.0-10.0 mg/L (ppm) 100 HI38041 9.23 Nitrate (as NO₃¬N) colorimetric 0-50 mg/L (ppm) 100 HI3874 9.25 Nitrate (as NO₃¬N) checker disc 0.50 mg/L (ppm) 100 HI38050 9.25	Hardness	Hardness (as CaCO₃) Total	titration	0-150 mg/L (ppm)	50 avg.	HI3840	9.21
Hydrogen Peroxide Hydrogen Peroxide titration 0.00-2.00 mg/L; 0.0-10.0 mg/L; 0.0-1		Hardness (as CaCO₃) Total	titration	40-500 mg/L (ppm)	50 avg.	HI3841	9.21
Hydrogen Peroxide Hydrogen Peroxide titration 0.0-10.0 mg/L 100 avg. Hi3844 9.22 Hypochlorite Hypochlorite (as Cl₂) titration 50-150 g/L (ppt) 100 avg. Hi3843 9.22 Iron colorimetric 0-5 mg/L (ppm) 50 avg. Hi3834 9.23 Iron checker disc 0.00-1.00 mg/L (ppm) 100 Hi38039 9.23 Iron checker disc 0.0-5.0 mg/L (ppm) 100 Hi38040 9.23 Iron checker disc 0.0-10.0 mg/L (ppm) 100 Hi38041 9.23 Nitrate (as NO₃¬N) colorimetric 0-50 mg/L (ppm) 100 Hi3874 9.25 Nitrate (as NO₃¬N) checker disc water: 0-50 mg/L (ppm); soil: 0-60 mg/L (ppm); soil: 0-60 mg/L (ppm) 100 Hi38050 9.25		Hardness (as CaCO₃) Total	titration	400-3000 mg/L (ppm)	50 avg.	HI3842	9.21
Iron	Hydrogen Peroxide	Hydrogen Peroxide	titration		100 avg.	HI3844	9.22
Iron	Hypochlorite	Hypochlorite (as Cl _z)	titration	50-150 g/L (ppt)	100 avg.	HI3843	9.22
Iron		Iron	colorimetric	0-5 mg/L (ppm)	50 avg.	HI3834	9.23
Iron	To a second	Iron	checker disc	0.00-1.00 mg/L (ppm)	100	HI38039	9.23
Nitrate (as NO ₃ -N) colorimetric 0-50 mg/L (ppm) 100 HI3874 9.25 Nitrate (as NO ₃ -N) checker disc water: 0-50 mg/L (ppm); 100 HI38050 9.25 (Irrigation Water and Soil) checker disc soil: 0-60 mg/L (ppm) 100	Iron	Iron	checker disc	0.0-5.0 mg/L (ppm)	100	HI38040	9.23
Nitrate Nitrate (as NO ₃ ⁻ N) checker disc water: 0-50 mg/L (ppm); 100 HI38050 9.25 (Irrigation Water and Soil)		Iron	checker disc	0.0-10.0 mg/L (ppm)	100	HI38041	9.23
(Irrigation Water and Soil) checker disc soil: 0-60 mg/L (ppm) 100		Nitrate (as NO ₃ -N)	colorimetric	0-50 mg/L (ppm)	100	HI3874	9.25
	Nitrate		checker disc			HI38050	9.25
	Nitrite	Nitrite (as NO ₂ -N)	colorimetric	0.0-1.0 mg/L (ppm)		HI3873	9.26



Single Parameter Test Kits

	Parameter	Method	Range	# of Tests	Code	Page
Oxygen, Dissolved	Oxygen, Dissolved	titration	0.0-10.0 mg/L (ppm)	110 avg.	HI3810	9.26
Ozone	Ozone	checker disc	0.0-2.3 mg/L (ppm)	100	HI38054	9.27
	Phosphate (PO ³⁻)	colorimetric	0-5 mg/L (ppm)	50	HI3833	9.27
Phosphate	Phosphate (PO ³⁻)	checker disc	0.00-1.00 mg/L (ppm); 0.0-5.0 mg/L (ppm); 0-50 mg/L (ppm)	100	HI38061	9.28
Salinity	Salinity	titration	0.0-40.0 g/kg (ppt)	110 avg.	HI3835	9.28
Silica, HR	Silica as (SiO₂)	checker disc	0-40 mg/L (ppm); 0-800 mg/L (ppm)	100	HI38067	9.29
	Sulfate (as SO ₄ ²⁻)	turbidimetric	20-100 mg/L (ppm)	100	HI38000	9.29
Sulfate	Sulfate (as SO ₄ ²⁻)	titration	100-1000 mg/L (ppm); 1000-10000 mg/L (ppm)	200	HI38001	9.30
Sulfite	Sulfite (as Na₂SO₃)	titration	0.0-20.0 mg/L (ppm); 0-200 mg/L (ppm)	110 avg.	HI3822	9.30

HI3829F

Free Chlorine Test Kit

With Color Cube

The HI3829F is a colorimetric chemical test kit that determines the free chlorine concentration within a 0.0 to 2.0 mg/L (ppm) range. The HI3829F is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 50 tests.

· Complete setup

 All required materials are included with the test kit, such as the sample beaker, color comparison cube, and reagent packets and dropper bottles.

High resolution

 Readings from 0.0 to 2.0 mg/L are determined to 0.5 mg/L resolution.

• Replacement reagents available

 There is no need to buy a new kit when reagents are exhausted. The HI3829F-050 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Disinfection is a process of killing disease-causing organisms (or pathogens). Chlorine (Cl_2) is a very desirable disinfectant because, when mixed with pure water, it reacts to form hypochlorous acid (HOCl) and hydrochloric acid (HCl). HOCl (free active chlorine) is the most effective form of chlorine for disinfection of pools, spas, and drinking water.

Drinking water municipalities add elemental chlorine to the water supply as chlorine gas, liquid sodium hypochlorite, or dry calcium hypochlorite. In water these form free chlorine ions, which destroy disease-causing pathogens, reduce odor, eliminate bacteria and help to remove unwanted elements. The USEPA requires that residual disinfectant is present in finished drinking water to ensure there is disinfectant available throughout the distribution system, with chlorine acting as one of the disinfectants that provides said residual.

HI3831F

Free Chlorine Test Kit

With Color Cube

The HI3831F is a colorimetric chemical test kit that determines the free chlorine concentration within a 0.0 to 2.5 mg/L (ppm) range. The HI3831F is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 50 tests.

Complete setup

 All required materials are included with the test kit, such as the sample beaker, color comparison cube, and reagent packets and dropper bottles.

High resolution

 Readings from 0.0 to 2.5 mg/L are determined to 0.5 mg/L resolution.

• Replacement reagents available

 There is no need to buy a new kit when reagents are exhausted. The HI3831F-050 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Disinfection is a process of killing disease-causing organisms (or pathogens). Chlorine (Cl_2) is a very desirable disinfectant because, when mixed with pure water, it reacts to form hypochlorous acid (HOCl) and hydrochloric acid (HCl). HOCl (free active chlorine) is the most effective form of chlorine for disinfection of pools, spas, and drinking water.

Drinking water municipalities add elemental chlorine to the water supply as chlorine gas, liquid sodium hypochlorite, or dry calcium hypochlorite. In water these form free chlorine ions, which destroy disease-causing pathogens, reduce odor, eliminate bacteria and help to remove unwanted elements. The USEPA requires that residual disinfectant is present in finished drinking water to ensure there is disinfectant available throughout the distribution system, with chlorine acting as one of the disinfectants that provides said residual. However, the EPA has also set a maximum contaminant level of 4.0 mg/L for free chlorine due to potential health effects above this level.



Specifications HI3829F Free Chlorine (as Cl₂)

Туре	colorimetric
Range	0.0 to 2.0 mg/L (ppm)
Smallest Increment	0.5 mg/L (ppm)
Method	DPD
Number of Tests	50 avg.
Ordering Information	HI3829F test kit comes with color comparison cube, 20 mL reagent 1 and 15 mL reagent 2
Reagent	HI3829F-050 free chlorine, 50 tests avo.

Specifications HI3831F Free Chlorine (as Cl₂)

Туре	colorimetric
Range	0.0 to 2.5 mg/L (ppm)
Smallest Increment	0.5 mg/L (ppm)
Method	DPD
Number of Tests	50 avg.
Ordering Information	HI3831F test kit comes with color comparison cube, 20 mL reagent 1 and 15 mL reagent 2.
Reagent	HI3831F-050 free chlorine, 50 tests avg.

ติดต่อบริษัท นีโอนิคส์ จำกัด

Tel: 02-077-7602 หรือ 061-8268939

E-mail: sale@neonics.co.th หรือ sale@tools.in.th

Free Chlorine Test Kit

Medium Range with Checker® Disc

The HI3875 is a chemical test kit that determines the free chlorine concentration within a 0.0 to 3.5 mg/L (ppm) range. The HI3875 is supplied with all of the necessary reagents and equipment to perform the analysis, including the Checker^{®} disc for accurate determination. The test kit contains enough reagents for perform approximately 100 tests.

Complete setup

 All required materials are included with the test kit, such as the glass vials, plastic pipette, reagent packets, and Checker® disc.

High resolution

 Readings from 0.0 to 3.5 mg/L are determined to 0.1 mg/L resolution.

• Replacement reagents available

 There is no need to buy a new kit when reagents are exhausted. The HI3875-100 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Disinfection is a process of killing disease-causing organisms (or pathogens). Chlorine (Cl_2) is a very desirable disinfectant because, when mixed with pure water, it reacts to form hypochlorous acid (HOCl) and hydrochloric acid (HCl). HOCl (free active chlorine) is the most effective form of chlorine for disinfection of pools, spas, and drinking water.

Drinking water municipalities add elemental chlorine to the water supply as chlorine gas, liquid sodium hypochlorite, or dry calcium hypochlorite. In water these form free chlorine ions, which destroy disease-causing pathogens, reduce odor, eliminate bacteria and help to remove unwanted elements. The USEPA requires that

residual disinfectant is present in finished drinking water to ensure there is disinfectant available throughout the distribution system, with chlorine acting as one of the disinfectants that provides said residual. However, the EPA has also set a maximum contaminant level of 4.0 mg/L for free chlorine due to potential health effects above this level.



Specifications HI3875 Free Chlorine (as Cl₂)

Туре	checker disc
Range	0.0-3.5 mg/L (ppm)
Smallest Increment	0.1 mg/L (ppm)
Method	DPD
Number of Tests	100 avg.
Ordering Information	HI3875 test kit comes with HI93701-0 free CI reagent (100 packets), 500 mL deionized water, checker disc, glass vials with caps (2) and 3 mL plastic pipette.
Reagent	HI3875-100 free chlorine, 100 tests avg.

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HI38018

Free Chlorine Test Kit

Low and Medium Range with Checker® Disc

The HI38018 is a chemical test kit that determines the free chlorine concentration in two ranges: 0.00 to 0.70 mg/L and 0.0 to 3.5 mg/L. The HI38018 is supplied with all of the necessary reagents and equipment to perform the analysis, including the Checker® disc for accurate determination. The test kit contains enough reagents for perform approximately 200 tests.

Complete setup

 All required materials are included with the test kit, such as the glass vials, plastic pipette, reagent packets, and Checker® disc.

High resolution

- Readings from 0.00 to 0.70 mg/L are determined to 0.02 mg/L resolution.
- Readings from 0.0 to 3.5 mg/L are determined to 0.1 mg/L resolution.

Replacement reagents available

 There is no need to buy a new kit when reagents are exhausted. The HI38018-200 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Disinfection is a process of killing disease-causing organisms (or pathogens). Chlorine (Cl₂) is a very desirable disinfectant because, when mixed with pure water, it reacts to form hypochlorous acid (HOCl) and hydrochloric acid (HCl). HOCl (free active chlorine) is the most effective form of chlorine for disinfection of pools, spas, and drinking water.

Drinking water municipalities add elemental chlorine to the water supply as chlorine gas, liquid sodium hypochlorite, or dry calcium hypochlorite. In water these form free chlorine ions, which destroy disease-causing pathogens, reduce odor, eliminate bacteria and help to remove unwanted elements. The USEPA requires that residual disinfectant is present in finished drinking water to ensure there is disinfectant available throughout the distribution system, with chlorine acting as one of the disinfectants that provides said residual. However, the EPA has also set a maximum contaminant level of 4.0 mg/L for free chlorine due to potential health effects above this level.

Specifications HI38018 Free Chlorine (as Cl₂)

Reagent	HI38018-200 free chlorine, 200 tests avg.
Ordering Information	HI38018 test kit comes with HI93701-0 free chlorine reagent (200 packets), demineralizer bottle with cap for 12 L, checker disc, glass vials with caps (2) and 3 mL plastic pipettes.
Number of Tests	200 avg.
Method	DPD
Smallest Increment	0.02 mg/L (ppm) 0.1 mg/L (ppm)
Range	0.00-0.70 mg/L (ppm) 0.0-3.5 mg/L (ppm)
Туре	checker disc



HI38017

Free & Total Chlorine Test Kit

Low and Medium Range with Checker® Disc

The HI38017 is a chemical test kit that determines the free and total chlorine concentration in two ranges: 0.00 to 0.70 mg/L and 0.0 to 3.5 mg/L. The HI38017 is supplied with all of the necessary reagents and equipment to perform both analyses, including the Checker® disc for accurate determination. The test kit contains enough reagents for perform approximately 200 tests.

Complete setup

 All required materials are included with the test kit, such as the glass vials, plastic pipette, reagent packets, and Checker® disc.

High resolution

- Readings from 0.00 to 0.70 mg/L are determined to 0.02 mg/L resolution.
- Readings from 0.0 to 3.5 mg/L are determined to 0.1 mg/L resolution.

• Replacement reagents available

 There is no need to buy a new kit when reagents are exhausted. The HI38017-200 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Chlorine is the most commonly used water disinfectant in applications such as drinking water and wastewater treatment, pool and spa sanitization, and food processing and sterilization. Chlorine present in water binds with bacteria, leaving only a part of the original quantity (free chlorine) to continue its disinfecting action. If the free chlorine level is improper with respect to pH, water will have an unpleasant taste and odor and the disinfecting potential of the chlorine will be diminished.

Free chlorine reacts with ammonium ions and organic compounds to form chlorine compounds; this results in diminished disinfecting capabilities compared with free chlorine. Chlorine compounds together with chloramines form combined chlorine. Combined chlorine and free chlorine together result in total chlorine. While free chlorine has a much higher disinfectant potential, combined chlorine has a much higher stability and lower volatility.

HI38020

Free & Total Chlorine Test Kit

Low, Medium and High Range with Checker® Disc

The HI38020 is a chemical test kit that determines the free and total chlorine concentration in three ranges: 0.00 to 0.70 mg/L, 0.0 to 3.5 mg/L, and 0.0 to 10.0 mg/L. The HI38020 is supplied with all of the necessary reagents and equipment to perform both analyses, including the Checker® disc for accurate determination. The test kit contains enough reagents for perform approximately 200 tests.

Complete setup

 All required materials are included with the test kit, such as the glass vials, plastic pipette, reagent packets, and Checker® disc.

High resolution

- Readings from 0.00 to 0.70 mg/L are determined to 0.02 mg/L resolution.
- Readings from 0.0 to 3.5 mg/L are determined to 0.1 mg/L resolution.
- Readings from 0.0 to 10.0 mg/L are determined to 0.5 mg/L resolution.

Replacement reagents available

 There is no need to buy a new kit when reagents are exhausted. The HI38020-200 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Chlorine is the most commonly used water disinfectant in applications such as drinking water and wastewater treatment, pool and spa sanitization, and food processing and sterilization. Chlorine present in water binds with bacteria, leaving only a part of the original quantity (free chlorine) to continue its

respect to pH, water will have an unpleasant taste and odor and the disinfecting potential of the chlorine will be diminished.

Free chlorine reacts with ammonium ions and organic compounds to form chlorine compounds; this results in diminished disinfecting capabilities compared with free chlorine. Chlorine compounds together with chloramines form combined chlorine. Combined chlorine and free chlorine together result in total chlorine. While free chlorine has a much higher disinfectant potential, combined chlorine has a much higher stability and lower volatility.

Specifications	HI38017 Free & Total Chlorine (as Cl ₂)
Туре	checker disc
Range	0.00-0.70 mg/L (ppm) 0.0-3.5 mg/L (ppm)
Smallest Increment	0.02 mg/L (ppm) 0.1 mg/L (ppm)
Method	DPD
Number of Tests	200 avg.
Ordering Information	HI38017 test kit comes with HI93701-0 free chlorine reagent (100 packets), HI93711-0 total chlorine reagent (100 packets), demineralizer bottle with filter cap for 12 L, checker disc, glass vials with caps (2) and 3 mL plastic pipettes
Reagent	HI38017-200 free & total chlorine, 200 tests avg.

Specifications	HI38020 Free & Total Chlorine (as Cl ₂)
Туре	checker disc
Range	0.00-0.70 mg/L (ppm) 0.0-3.5 mg/L (ppm) 0.0-10.0 mg/L (ppm)
Smallest Increment	0.02 mg/L (ppm) 0.1 mg/L (ppm) 0.5 mg/L (ppm)
Method	DPD
Number of Tests	200 avg.
Ordering Information	HI38020 test kit comes with HI93701-0 free chlorine reagent (100 packets), HI93711-0 total chlorine reagent (100 packets), demineralizer bottle with filter cap for 12 L, checker disc, glass vials with caps (2) and 3 mL plastic pipettes
Reagent	HI38020-200 free & total chlorine, 200 tests avg.

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Total Chlorine Test Kit

with Color Cube

The HI3831T is a colorimetric chemical test kit that determines the total chlorine concentration within a 0.0 to 2.5 mg/L (ppm) range. The HI3831T is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 50 tests.

Complete setup

 All required materials are included with the test kit, such as the sample beaker, color comparison cube, and reagent packets and dropper bottles.

High resolution

 Readings from 0.0 to 2.5 mg/L are determined to 0.5 mg/L resolution.

• Replacement reagents available

 There is no need to buy a new kit when reagents are exhausted. The HI3831T-050 can be ordered to replace the reagents supplied with the kit.

Significance of Use

The chlorination of water supplies and polluted waters is used mainly to destroy or deactivate disease-producing microorganisms. Chlorine also serves to improve the quality of drinking waters, as it reacts with ammonia, iron, manganese, sulfide, and some organic substances. Nevertheless, high amounts of chlorine will produce adverse effects like the formation of compounds which are potentially carcinogenic (e.g. chloroform) or harmful to aquatic life (e.g. chloramines). It remains essential to control the amount of added chlorine in order to fulfill the primary purpose of disinfecting while also minimizing any adverse effects.



Specifications HI3831T Total Chlorine (as Cl₂)

Туре	colorimetric
Range	0.0-2.5 mg/L (ppm)
Smallest Increment	0.5 mg/L (ppm)
Method	DPD
Number of Tests	50 avg.
Ordering Information	HI3831T test kits comes with color comparison cube, 20 mL chlorine reagent 1, 15 mL chlorine reagent 2 and 15 mL chlorine reagent 3
Reagent	HI3831T-050 total chlorine, 50 tests avg.

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HI38023

Total Chlorine Test Kit

Extended Range

The HI38023 is a titration-based chemical test kit that determines the total chlorine concentration within a 10 to 200 mg/L (ppm) range. The HI38023 is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 100 tests.

Complete setup

 All required materials are included with the test kit, such as the sample beaker, indicator and reagent bottles and packets, spoon, and plastic syringe.

High resolution

 Readings from 10 to 200 mg/L are determined to 10 mg/L resolution.

• Replacement reagents available

 There is no need to buy a new kit when reagents are exhausted. The HI38023-100 can be ordered to replace the reagents supplied with the kit.

Significance of Use

The chlorination of water supplies and polluted waters is used mainly to destroy or deactivate disease-producing microorganisms. Chlorine also serves to improve the quality of drinking waters, as it reacts with ammonia, iron, manganese, sulfide, and some organic substances. Nevertheless, high amounts of chlorine will produce adverse effects like the formation of compounds which are potentially carcinogenic (e.g. chloroform) or harmful to aquatic life (e.g. chloramines). It remains essential to control the amount of added chlorine in order to fulfill the primary purpose of disinfecting while also minimizing any adverse effects.



Specifications HI38023 Total Chlorine (as Cl₂)

Type	titration
Range	10-200 mg/L (ppm)
Smallest Increment	10 mg/L (ppm)
Method	iodometric
Number of Tests	100 avg.
Ordering Information	HI38023 test kit comes with 30 mL potassium iodide solution, sulfamic reagent (100 packets), 25 mL starch indicator, 100 mL thiosulfate reagent, 50 mL calibrated vessel, 1 mL syringe with tip, 1 mL plastic pipette and spoon.
Reagent	HI38023-100 total chlorine extended range, 50 tests avg.

