

Reagents for Chemical Test Kits

Code	Description	Code	Description
Acidity, methyl orange method			
Range:	0 to 100 mg/L; 0 to 500 mg/L	Calcium and magnesium (irrigation water), EDTA method	
Reagents		Range:	> 0.0 mg/L
HI 3820-100	Reagent kit for 110 tests (CaCO ₃)	Reagents	
Acidity, olive oil, titration with hydroxide			
Range:	0.00 to 1.00%	HI 38081-100	Reagent kit for 100 tests (Ca and Mg)
Reagents		Carbon dioxide, base titration method	
HI 3897	Reagent kit for 6 tests	Range:	0.0 to 10.0 mg/L
HI 3897-010	Spare kit for 10 tests		0.0 to 50.0 mg/L
Acidity, total exchangeable, potassium chloride method			
Range:	0.0 to 2.5 meq/100 g		0 to 100 mg/L
Reagents		Reagents	
HI 38084-100	Reagent kit for 100 tests (total acidity exchangeable)	HI 3818-100	Reagent kit for 110 tests (CO ₂)
Alkalinity, acid titration method			
Range:	0 to 100 mg/L	Chloride, absence/presence, silver nitrate titration method	
	0 to 300 mg/L	Range:	1000 mg/L (ISO)
Reagents			2000 mg/L (EPA)
HI 3811-100	Reagent kit for 110 tests (CaCO ₃)	Reagents	
Alkalinity, acid titration method			
Range:	0 to 500 gpg	HI 3898	Test kit for 100 tests (Cl ⁻)
Reagents		Chloride, extended range, silver nitrate titration method	
HI 38014-100	Reagent kit for 100 tests (CaCO ₃)	Range:	500 to 10.000 mg/L
Alkalinity, Phenolphthalein and total, phenolphthalein/bromine phenol blue			
Range:	0.0 to 10.0 gpg		5.000 to 100.000 mg/L
	0.0 to 20.0 gpg	Reagents	
Reagents		HI 38015-100	Reagent kit for 100 tests (Cl ⁻)
HI 38013-100	Reagent kit for 200 tests	Chloride, mercury nitrate titration method	
Ammonia (fresh water), Nessler colorimetric method			
Range:	0.0 to 2.5 mg/L	Range:	0 to 100 mg/L
Reagents			0 to 1000 mg/L
HI 3824-025	Reagent kit for 25 tests (NH ₃ -N fresh water)	Reagents	
Ammonia (fresh water), Nessler colorimetric method			
Range:	0.0 to 3.0 mg/L	HI 3815-100	Reagent kit for 100 tests (Cl ⁻)
Reagents		Chlorine, free and total, LR / MR / HR, DPD colorimetric method	
HI 38049-100	Reagent kit for 100 tests (NH ₃ -N fresh water)	Range:	0.00 to 0.70 mg/L
Ammonia (sea water), Nessler colorimetric method			
Range:	0.0 to 2.5 mg/L		0.0 to 3.5 mg/L
Reagents			0.0 to 10.0 mg/L
HI 3826-025	Reagent kit for 25 tests (NH ₃ -N sea water)	Reagents	
Ascorbic Acid, iodometric method			
Range:	10 to 200 mg/L	HI 38020-200	Reagent kit for 200 tests (free and total chlorine)
Reagents		Chlorine, free and total, LR / MR, DPD colorimetric method	
HI 3850-100	Reagent kit for 100 tests (ascorbic acid)	Range:	0.00 to 0.70 mg/L
Boron, boric acid method			
Range:	0.0 to 5.0 mg/L		0.0 to 3.5 mg/L
Reagents		Reagents	
HI 38074-100	Reagent kit for 100 tests (B)	HI 38017-200	Reagent kit for 200 tests (free and total chlorine)
Bromine, DPD colorimetric method			
Range:	0.0 to 3.0 mg/L	Chlorine, free, DPD colorimetric method	
Reagents		Range:	0.0 to 2.5 mg/L
HI 3830-060	Reagent kit for 60 tests (Br ₂)	Reagents	
Calcium (irrigation water), turbidimetric method			
Range:	0 to 125 mg/L	HI 3831F-050	Reagent kit for 50 tests (free chlorine)
	0 to 250 mg/L		
Reagents			
HI 38086-100	Reagent kit for 100 tests (Ca)		



HI 3847
Test Kit for Copper Analysis

Reagents for Chemical Test Kits

Code	Description
Chlorine, free, LR / MR, DPD colorimetric method	
Range:	0.00 to 0.70 mg/L 0.0 to 3.5 mg/L
Reagents	
HI 38018-200	Reagent kit for 200 tests (free chlorine)
Chlorine, free, MR, DPD colorimetric method	
Range:	0.0 to 3.5 mg/L
Reagents	
HI 3875-100	Reagent kit for 100 tests (free chlorine)
Chlorine, total, DPD colorimetric method	
Range:	0 to 2.5 mg/L
Reagents	
HI 3831T-050	Reagent kit for 50 tests
Chlorine, total, extended range, iodometric method	
Range:	10 to 200 mg/L
Reagents	
HI 38023-100	Reagent kit for 100 tests (total chlorine)
Chlorine, total, HR, iodometric method	
Range:	0.0 to 4.0 mg/L 0.0 to 20.0 mg/L
Reagents	
HI 38022-100	Reagent kit for 100 tests (total chlorine)
Chlorine, total, LR / MR, DPD colorimetric method	
Range:	0.00 to 0.70 mg/L 0.0 to 3.5 mg/L
Reagents	
HI 38019-200	Reagent kit for 200 tests (total chlorine)
Chlorine, total, MR, DPD colorimetric method	
Range:	0.0 to 3.5 mg/L
Reagents	
HI 38016-100	Reagent kit for 100 tests (total chlorine)
Chromium VI, diphenylcarbohydrazide method	
Range:	0.0 to 1.0 mg/L
Reagents	
HI 3846-100	Reagent kit for 100 tests (Cr VI LR)
Chromium VI MR / HR, iodometric method	
Range:	0 to 100 mg/L 100 to 1000 mg/L
Reagents	
HI 3845-100	Reagent kit for 100 tests (Cr VI HR)
Copper HR, bichinchonate method	
Range:	0.0 to 2.5 mg/L
Reagents	
HI 3847-100	Reagent kit for 100 tests (Cu HR)

Code	Description
Copper LR / HR, bichinchonate method	
Range:	0.00 to 0.25 mg/L 0.0 to 6.0 mg/L
Reagents	
HI 38075-100	Reagent kit for 100 tests (Cu)
Copper ULR, bichinchonate method	
Range:	0.00 to 0.25 mg/L
Reagents	
HI 3856-100	Reagent kit for 100 tests (Cu LR)
Cyanide, pyridine-pyrazolone method	
Range:	0.00 to 0.30 mg/L
Reagents	
HI 3855-100	Reagent kit for 100 tests (CN ⁻)
Cyanuric Acid, turbidimetric method	
Range:	10 to 100 mg/L
Reagents	
HI 3851-100	Reagent kit for 100 tests (cyanuric acid)
Detergents, methylene blue method	
Range:	0.00 to 1.30 mg/L
Reagents	
HI 3857-035	Reagent kit for 35 tests (ABS/LAS)
Dissolved Oxygen, Winkler method	
Range:	0.0 to 10.0 mg/L
Reagents	
HI 3810-100	Reagent kit for 110 tests (O ₂)
Formaldehyde, acid titration method	
Range:	0.00 to 1.00 % CH ₂ O 0.0 to 10.0 % CH ₂ O
Reagents	
HI 3838-100	Reagent kit for 110 tests (formaldehyde)
Glycol, oxidation method	
Range:	present/absent
Reagents	
HI 3859-025	Reagent kit for 25 tests (glycol)
Hardness, total and calcium, EDTA titration method	
Range:	0.0 to 20.0 gpg total Hardness (CaCO ₃) 0.0 to 20.0 gpg Calcium (Ca)
Reagents	
HI 38035-200	Reagent kit for 200 tests
Hardness, total, EDTA titration method	
Range:	0.0 to 20.0 gpg 0.0 to 20.0 mg/L
Reagents	
HI 38034-200	Reagent kit for 200 tests (CaCO ₃)



HI 3833
Phosphate Test Kit

Reagents for Chemical Test Kits

Code	Description	Code	Description
Hardness, total, EDTA titration method		Iron LR, phenanthroline colorimetric method	
Range:	0.0 to 30.0 mg/L 0 to 300 mg/L	Range:	0.00 to 1.00 mg/L
Reagents		Reagents	
HI 3812-100	Reagent kit for 100 test	HI 38039-100	Reagent kit for 100 tests (Fe)
Hardness, total, EDTA method		Iron MR, phenanthroline colorimetric method	
Range:	0 to 30 gpg	Range:	0.0 to 5.0 mg/L
Reagents		Reagents	
HI 38033-100	Reagent kit for 100 test	HI 38040-100	Reagent kit for 100 tests (Fe)
Hardness, total, EDTA method		Iron, phenanthroline colorimetric method	
Range:	0 to 3000 mg/L	Range:	0 to 5 mg/L
Reagents		Reagents	
HI 3840	Test kit for 50 tests (range 0 to 150 mg/L)	HI 3834-050	Reagent kit for 50 tests (Fe)
HI 3841	Test kit for 50 tests (range 40 to 500 mg/L)	Magnesium (irrigation water), EDTA method	
HI 3842	Test kit for 50 tests (range 400 to 3000 mg/L)	Range:	0.0 to 24.0 mg/L 0.0 to 725.0 mg/L
Hydrazine, p-dimethylaminobenzaldehyde method		Reagents	
Range:	0.00 to 1.00 mg/L (ppm)	HI 38079-100	Reagent kit for 100 tests (Mg irrigation water)
Reagents		Magnesium and Calcium (soil), method EDTA - see Calcium and Magnesium	
HI 3849-100	Reagent kit for 100 tests (N ₂ H ₄)	Manganese (irrigation water) HR, sodium periodate method	
Hydrogen Peroxide, iodometric method		Range:	0.0 to 10.0 mg/L
Range:	0.00 to 2.00 mg/L 0.0 to 10.0 mg/L	Reagents	
Reagents		HI 38072-100	Reagent kit for 100 tests (Mn HR)
HI 3844-100	Reagent kit for 100 tests (H ₂ O ₂)	Manganese (LR), method sodium periodate	
Hydroxide, acid titration method		Range:	0.0 to 3.0 mg/L
Range:	0.00 to 1.00 g/L 0.0 to 10.0 g/L	Reagents	
Reagents		HI 38042-100	Reagent kit for 100 tests (Mn LR)
HI 3839-100	Reagent kit for 110 tests (OH ⁻)	Nitrate (soil + irrigation), cadmium reduction method	
Hypochlorite, iodometric method		Range:	0 to 60 mg/L (soil) 0 to 50 mg/L (irrigation water)
Range:	50 to 150 g/L Cl ₂	Reagents	
Reagents		HI 38050-200	Reagent kit for 200 tests (NO ₃ ⁻ -N)
HI 3843-100	Reagent kit for 100 tests (hypochlorite)	Nitrate, cadmium reduction method	
Iodine, DPD colorimetric method		Range:	0 to 50 mg/L
Range:	0.0 to 2.5 mg/L	Reagents	
Reagents		HI 3874-100	Reagent kit for 100 tests (NO ₃ ⁻ -N)
HI 3832-050	Reagent kit for 50 tests (I ₂)	Nitrite, chromotropic acid method	
Iodine, DPD colorimetric method		Range:	0.00 to 0.50 mg/L
Range:	0 to 5 mg/L	Reagents	
Reagents		HI 38051-100	Reagent kit for 100 tests (NO ₂ ⁻ -N)
HI 3879-100	Reagent kit for 100 tests (I ₂)		
Iron HR, phenanthroline colorimetric method			
Range:	0.0 to 10.0 mg/L		
Reagents			
HI 38041-100	Reagent kit for 100 tests (Fe)		

HI 3895

Complete Test Kit for Soil Analysis



Reagents for Chemical Test Kits

Code	Description	Code	Description
Nitrite, chromotropic acid method		Phosphate, ascorbic acid method	
Range:	0.0 to 1.0 mg/L	Range:	0.00 to 1.00 mg/L
Reagents			0.0 to 5.0 mg/L
HI 3873-100	Reagent kit for 100 tests (NO ₂ ⁻ -N)		0 to 50 mg/L
Ozone, DPD method		Reagents	
Range:	0.0 to 2.3 mg/L	HI 38061-100	Reagent kit for 100 tests (PO ₄ ³⁻ orthophosphate)
Reagents		Phosphorus (soil), colorimetric method	
HI 38054-100	Reagent kit for 100 tests (O ₃)	Range:	0.0 to 130.0 mg/L
pH, pH indicator method		Reagents	
Range:	4.0 to 6.5 pH	HI 38073-100	Reagent kit for 100 tests (phosphorus)
Reagents		Potassium (soil), turbidimetric method	
HI 3880-010	Reagent kit for 100 tests (4.0-6.5 pH, reag. Cl ₂)	Range:	0 to 50 mg/L
HI 3880-100	Reagent kit for 100 tests (4.0-6.5 pH)		50 to 250 mg/L
pH, pH indicator method		Reagents	
Range:	6.0 to 8.5 pH	HI 38082-100	Reagent kit for 100 tests (potassium)
Reagents		Salinity, mercuric nitrate titration method	
HI 3881-010	Reagent kit for 100 tests (6.0-8.5 pH, Cl ₂ reag.)	Range:	0.0 to 40.0 g/Kg
HI 3881-100	Reagent kit for 100 tests (6.0-8.5 pH)	Reagents	
pH, pH indicator method		HI 3835-100	Reagent kit for 110 tests (salinity)
Range:	3.0 to 5.0 pH	SAR, EDTA titration method	
Reagents		Range:	> 0.0 meq/L
HI 3882-10	Reagent kit for 200 tests (3.0-5.0 pH)	Reagents	
pH, pH indicator method		HI 38078-100	Reagent kit for 100 tests (S.A.R)
Range:	7.5 to 10.0 pH	Silica HR, Heteropoly Blue method	
Reagents		Range:	0 to 40 mg/L
HI 3886-010	Reagent kit for 100 tests (7.5-10.0 pH, Cl ₂ reag.)		0 to 800 mg/L
HI 3886-100	Reagent kit for 100 tests (7.5-10.0 pH)	Reagents	
pH, pH indicator method		HI 38067-100	Reagent kit for 100 tests (SiO ₂)
Range:	4.0 to 10.0 pH	Silica LR, Heteropoly Blue method	
Reagents		Range:	0.00 to 1.00 mg/L
HI 38058-100	Reagent kit for 300 tests (4.0-10.0 pH)	Reagents	
pH, pH indicator method		HI 38066-100	Reagent kit for 100 tests (SiO ₂)
Range:	4.0 to 8.0 pH	Sodium, exchangeable (EES) and gypsum requirement (GR), calcium sulphate method	
HI 3881-5	Test kit for 200 tests	Range:	0.00 to 56.40 meq/100 g soil (EES)
Phenol, aminoantipyrine method			0.0 to 213.0 metric ton/ha (GR)
Range:	0.00 to 1.00 mg/L	Reagents	
	0.5 to 5.0 mg/L	HI 38083-100	Reagent kit for 100 tests (EES and GR)
Reagents			
HI 3864-100	Reagent kit for 100 tests (phenol)		
Phosphate (irrigation water), ascorbic acid method			
Range:	0.0 to 5.0 mg/L		
Reagents			
HI 38077-100	Reagent kit for 100 tests (PO ₄ ³⁻ orthophosphate)		
Phosphate, ascorbic acid method			
Range:	0 to 5 mg/L		
Reagents			
HI 3833-050	Reagent kit for 50 tests (PO ₄ ³⁻ orthophosphate)		

HI 3855 Cyanide Test Kit



Reagents for Chemical Test Kits

Code	Description
Soil analysis, Ned (N), ascorbic acid (P), tetraphenylborate (K), pH indicators (pH)	
Range:	Nitrogen (N): trace, low, medium, high Phosphorus (P): trace, low, medium, high Potassium (K): trace, low, medium, high pH: 4 to 9 pH
Reagents	
HI 3895-010	Reagent kit for 10 tests (N, P, K, pH)
HI 3896-025	Reagent kit for 25 tests (N, P, K, pH)
Sulphate, barium chloride method	
Range:	20 to 100 mg/L
Reagents	
HI 38000-10	Reagent kit for 100 tests (SO ₄ ²⁻)
Sulphate LR/HR, barium chloride method	
Range:	100 to 1000 mg/L 1000 to 10000 mg/L
Reagents	
HI 38001-10	Reagent kit for 200 tests (SO ₄ ²⁻)
Sulphite, iodometric titration method	
Range:	0 to 20 mg/L 0 to 200 mg/L
Reagents	
HI 3822-100	Reagent kit for 100 tests (Na ₂ SO ₃)
Zinc, extended range, zincon method	
Range:	0.0 to 4.0 mg/L 0.0 to 20.0 mg/L
Reagents	
HI 38076-100	Reagent kit for 100 tests (Zn)
Zinc, zincon method	
Range:	0.0 to 3.0 mg/L
Reagents	
HI 3854-100	Reagent kit for 100 tests (Zn)

Accessories for Analysis

Accessories	
HI 3824-99	Ammonia color cube
HI 3830-99	Bromine color cube
HI 3831-99	Chlorine color cube
HI 3832-99	Iodine color cube
HI 3833-99	Phosphate color cube
HI 3834-99	Iron color cube
HI 731340	200 µL automatic pipet
HI 731341	1000 µL automatic pipet
HI 731342	2000 µL automatic pipet
HI 731350	Tip for 200 µL automatic pipet (25 pcs)
HI 731351	Tip for 1000 µL automatic pipet (25 pcs)
HI 731352	Tip for 2000 µL automatic pipet (25 pcs)
HI 740032P	Cap for 20 mL beaker (10 pcs)
HI 740034P	Cap for 50 mL beaker (10 pcs)
HI 740036P	Plastic Beaker, 50 mL (10 pcs)
HI 740037P	Plastic Beaker, 20 mL (10 pcs)
HI 740041	60 mL glass BOD bottle
HI 740048P	Plastic bottle, 120 mL (10 pcs)
HI 740049P	Cap for 120 mL plastic bottle (10 pcs)
HI 740132P	Dosing spoon (10 pcs)
HI 740142P	Graduated syringe (10 pcs)
HI 740144P	Tip for graduated syringe (10 pcs)
HI 740196P	Plastic vials (5 pcs)
HI 740220	25 mL glass test tube with cap, (2 pcs)
Demi-02	Bottle for 2 L of demineralized water
Demi-05	Bottle for 5 L of demineralized water
Demi-10	Bottle for 10 L of demineralized water

Demi-02, Demi-05 and Demi-10 Bottles for Demineralized Water

