

SMART Water Analysis Laboratory

MODEL SCL-05, Order Code 1951-02 (Shipping Code LQ; 37 lbs.)

Reagent Refill, Order Code R-1951 (Shipping Code LQ; 10 lbs.)

This portable lab measures 24 water quality parameters for pollution detection, environmental studies, and industrial water and wastes. The SMART3 digital colorimeter analyzes test sample color reactions and provides direct readouts for 15 factors. Titration tests performed with LaMotte's Direct Reading Titrators provide results directly in ppm for 6 additional factors. Digital meters measure pH and conductivity.

See specifications on next page.



Ship Codes: (NH) Non-Hazardous Material - No Fees · (R1) Small Qty. Hazardous Material - No Fees · (LQ, R2, R3) Hazardous Material - Air Fees Only · (HF) Hazardous Material - Air & Ground Fees
*(NPDWR) EPA Accepted · †(NPDES) EPA Accepted · Direct Reading Titrators have a specific range, but may be refilled to test higher concentrations.

General Water Analysis

Laboratories, Government Agencies

Colorimeter Tests

Factor	Method	Range [# Test]
Ammonia	Nesslerization	0-4.0 ppm [50]
Chlorine	DPD	0-4.0 ppm [100]
Bromine	DPD	0-9 ppm [100]
Iodine	DPD	0-16 ppm [100]
Chromium [Hexavalent]	Diphenylcarbazide	0-1.0 ppm [100]
Copper	Diethyldithiocarbamate	0-6.0 ppm [100]
Fluoride	SPADNS	0-2.0 ppm [50]
Iron	Bipyridyl	0-6.0 ppm [50]
Nitrate	Cadmium Reduction	0-3.0 ppm [20]
Nitrite	Diazotization/Coupling	0-0.8 ppm [20]
Phosphate	Ascorbic Acid Reduction	0-3.0 ppm [50]
Silica	Heteropoly Blue	0-4.0 ppm [50]
Sulfate	Barium Chloride	0-100 ppm [50]
Sulfide	Methylene Blue	0-1.5 ppm [50]
Turbidity	Absorption [No Reagents]	0-400 NTU [∞]

Titration Tests

Factor	Method	Range [# Test]
Alkalinity	Neutralization	0-200 ppm (50 at 200 ppm)
Carbon Dioxide	Neutralization	0-50 ppm (50 at 50 ppm)
Chloride/Salinity	Argentometric	0-200 ppm (50 at 200 ppm)
Dissolved Oxygen	Azide Modification of Winkler Method	0-10 ppm (50 at 10 ppm)
Hardness [Calcium, Magnesium, & Total]	Complexometric	0-200 ppm (50 at 200 ppm)

pH/Conductivity Instruments

Factor	Code	Model	Range # Test
pH	5-0034-01	pH5	pH 0-14
Conductivity	5-0038-02	CON5	0.0-19.99 mS

Also Available...

Description	Code	Model	Ship Code [Wgt.]
Model SMART 3 Colorimeter, without pH & Conductivity Lab Meters	1991-01	SCL-04	LQ [34 lbs.]
Reagent Refill	R-1991		LQ [10 lbs.]



Ship Codes: [NH] Non-Hazardous Material - No Fees · [R1] Small Qty. Hazardous Material - No Fees · [LQ, R2, R3] Hazardous Material - Air Fees Only · [HF] Hazardous Material - Air & Ground Fees
 * [NPDWR] EPA Accepted · † [NPDES] EPA Accepted · Direct Reading Titrators have a specific range, but may be refilled to test higher concentrations.