LaMotte®

SOLVING ANALYTICAL CHALLENGES SINCE 1919

WATER ANALYSIS SOLUTIONS

Pacific Region





Water Analysis Solutions by LaMotte

For over 100 years, LaMotte has been an innovating leader in water quality analysis. The result of this innovation is a broad range of world-class products suitable to test water in a multitude of applications.

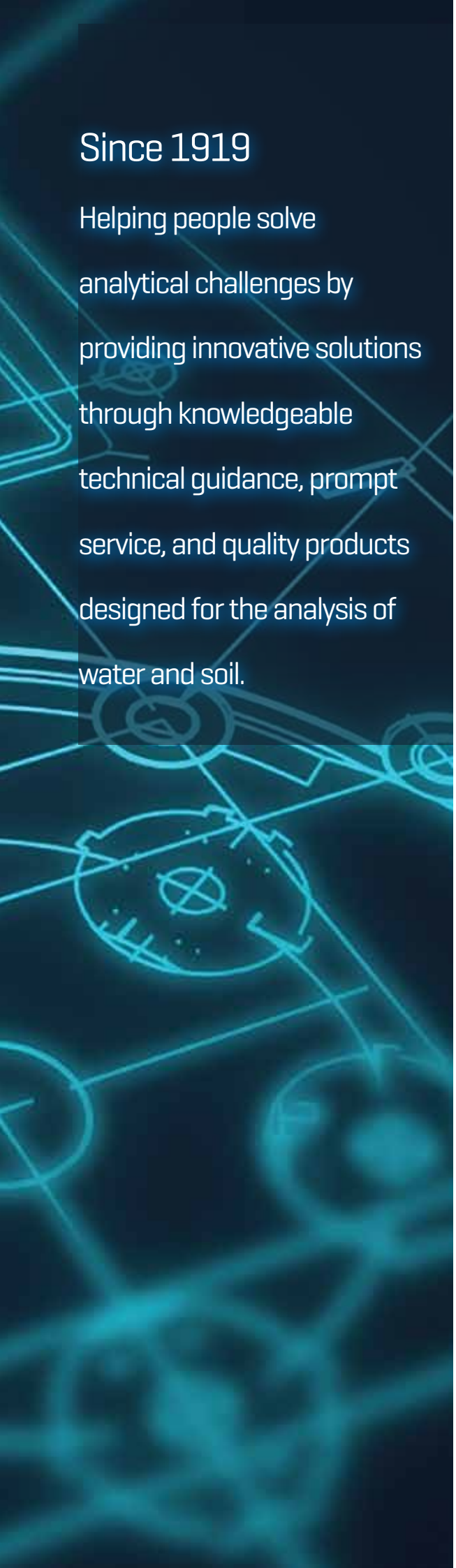
Our products combine the highest performance standards, while being easy to use, making LaMotte the right choice for professionals and hobbyists, alike. Whether you are looking for tablet or liquid reagents or electronic meter systems that link data into software, we have the right solution for you.

LaMotte has seen fantastic growth over the last several years. To continue this growth, we have invested heavily in new equipment; expanded our existing plant in Chestertown, MD; and in late 2022, opened an additional manufacturing facility in Newark, DE. All these investments are aimed at meeting our customers increasing demands for our products on time.

We take technical support and customer service very seriously—it's what sets us apart. If you ever have questions about our products or have a unique water analysis problem, make sure to reach out to us, that's why we're here. I encourage you to call our Customer Care staff for guidance on product selection or Technical Support for assistance with any questions regarding purchased LaMotte products.

Please know that when you buy water analysis products from us, you purchase solutions to your challenges, not simply hardware.

Scott Amsbaugh
President & CEO LaMotte Company



Since 1919

Helping people solve analytical challenges by providing innovative solutions through knowledgeable technical guidance, prompt service, and quality products designed for the analysis of water and soil.

Table of Contents

WaterLink® Spin Touch®

For Water Conditioning & Filtration Applications

WaterLink® Spin Touch®

Order Code 3580-AU

The innovative WaterLink® Spin Touch® photometer does all your pool and spa water testing for you. Each sealed SpinDisk® contains the precise amount of reagent needed to run a complete series of tests. Just fill one unique SpinDisk® with less than 3 mL of water and all your vital tests are done automatically.

Complete Lab Includes

Photometer, Instruction Manual, Quick-Start Guide, 3 Syringes, Meter Check Disk, Disk Cover, Sample Bottle, USB Cord with USB Wall Adapter, Carrying Case (Disks sold separately).

Instrument Specifications:	
Instrument Type:	Photometer
6 Wavelengths:	390 nm, 428 nm, 470 nm, 525 nm, 568 nm, 635 nm
Display:	Color Capacitive Touchscreen, 3.5", 320 X 240 pixel resolution
Languages:	English, French, Spanish, German, Italian, Portuguese, Dutch, Swedish, Turkish, Chinese
Batteries:	Lithium Ion, Rechargeable (Full Charge in 10-12 hours), 150 tests per charge
Communication:	Bluetooth, USB-C
Calibration:	Factory Set, Field Calibration via Internet Connection
Date Storage:	Last 250 Test Results with Date, Time, Location
Water Resistance:	Rubber Co-molded Base, Rubber USB Port Plug, Gasketed Display & Hinge
Size & Weight:	8.5 L x 4.9 W x 4.1 H in; 1.74 lb; 22.6 L x 12.7 W x 11.4 H cm; 0.79 kg
Operation:	Single On/Off/Reset Button with Indicator Light, Touchscreen
Firmware	Internet updateable (New Test, New Test Calibrations, etc.), requires a USB connection to a Windows® PC
Printer	Optional Bluetooth® Printer (Code 5-0067); 384 dots per line at 8 dots/mm resolution
Certification	CE

Reliable Results

- Virtually eliminates User-Error
- Pre-Measured Reagents
- Exact Reaction Times and Auto-Blanking
- Meter Calibration Check System
- New 6-Wavelength Photometer

Super Fast & Simple

- Fill Disk and Insert > Select "Start Test" > Read Results
- Results in 60 seconds

Auto-Record Keeping

- Stores Test Dates, Times, Results

Stand-Alone

- No Computer, Smartphone, or Tablet Needed
- Touchscreen Operation
- Communicate through Bluetooth® or USB

Rugged and Portable

- Innovative Water-Resistant Housing
- Internal, Rechargeable Batteries

Certified to NSF/ANSI/CAN 50

NSF CERTIFICATION

The NSF/ANSI/CAN 50 certification mark on a water quality testing device (WQTD) used in recreational waters, such as pools and spas, means that the product was reviewed and certified by NSF International to meet applicable American National Standards for product design and performance. NSF tests and re-tests products to confirm that they comply with all requirements of certification for performance, accuracy and operating range. Certification levels of L1, L2, and L3 are possible with L1 being the highest rating. Go to **www.nsf.org** for more information.

Effective June 2023. Based on a 12 month shelf life. Other test factors not evaluated by NSF. Go to **www.nsf.org** to review the latest levels, ranges, shelf life, firmware versions supported, and a current listing of LaMotte NSF 50 certified products.

WaterLink® SpinDisk® Series

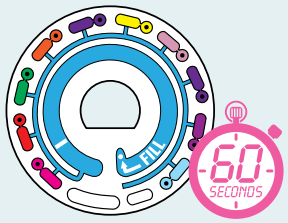
The genius behind the Spin Touch® is its Patented* Centrifugal Fluidics Reagent SpinDisk®—designed to analyze 10 or 3 parameters simultaneously!

	Order Code	4348	4349	4350	4331	4355	4334	4335
	Series #	104	204	304	402	801	501	601
	Uses per Disk	Single	Single	Single	Single	Single	3	3
Test Parameter	Range							
Free Chlorine (DPD)	0-15 ppm	■	■	■		■	■	■
Total Chlorine (DPD)	0-15 ppm	■	■	■		■	■	
Bromine (DPD)	0-33 ppm	■	■	■		■	■	■
pH	6.4-8.6	■	■	■	■	■	■	■
Total Hardness	0-1200 ppm	■	■	■		■		
Calcium Hardness	0-800 ppm				■			
Total Alkalinity	0-250 ppm	■	■	■	■	■		■
Cyanuric Acid	5-150 ppm	■	■	■		■		
Copper	0-3.0 ppm	■	■	■	■			
Iron	0-3.0 ppm	■			■			
Salt	0-5000 ppm	■	■	■		■		
Phosphate	0-2000 ppb		■			■		
Borate	0-80 ppm			■	■			
Magnesium	0-2000 ppm					■		
Biguanide	0-70 ppm				■			
Biguanide Shock	0-250 ppm				■			

*Disk Patent No. 8,734,734 | FCI Patent No. 8,987,000 | TCI Patent No. 8,993,337 | FCI EU Patent No. EP2784503 A1

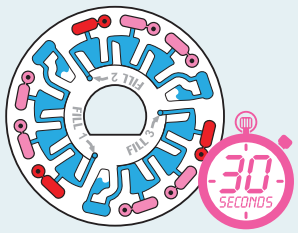
10 Test Parameter Disks

Ideal for Service, In-Store, and Public Pool Testing. See Test Parameters in Chart to the left.



Test 3 Parameters, 3 Times!

Ideal for Public Pools testing throughout the day. See Test Parameters in Chart to the left.



SpinDisk® Reagent Cartridges

Treated Water Series DW13

Order Code 4336-H

Test Parameter	Range
Free Chlorine	0-15 ppm
Total Chlorine	0-15 ppm
Combined Chlorine	0-15 ppm
pH	6.4-10.0 pH
Total Hardness	0-70 gpg; 0-1200 ppm
Total Iron	0-6 ppm
Copper	0-6 ppm
Total Alkalinity	0-250 ppm

Well Water Series DW21

Order Code 4337-H

Test Parameter	Range
pH	4.5-8.6 pH
Total Hardness	0-70 gpg; 0-1,200 ppm
Total Iron	0-6 ppm
Ferric Iron	0-6 ppm
Ferrous Iron	0-6 ppm
Copper	0-6 ppm
Nitrate (NO_3)	0-45 ppm
Nitrite (NO_2)	0-2 ppm
Total Alkalinity	0-250 ppm

Boiler/Cooling Water Series BC803

Order Code 4339-H

Test Parameter	Range
Free Chlorine (DPD)	0.00-15.00 ppm
Total Chlorine (DPD)	0.00-15.00 ppm
Bromine (DPD)	0.00-33.00 ppm
Combined Chlorine	0.00-15.00 ppm
Calcium Hardness	0-800 ppm
Total Hardness	0-1200 ppm
Total Alkalinity	0-250 ppm
Copper	0.00-6.00 ppm
Iron, Total	0.0-6.0 ppm
Phosphate	0-50 ppm
Silica/Silicon Dioxide	0-100 ppm

FX Fresh Water Reagent Disks

Order Code 4353-H

Test Parameter	Range
Alkalinity	0-250 ppm 14.0 dKH
Ammonia	0.0-3.0 ppm
Hardness	0-500 ppm 28.0 dGH
Nitrate	0-300 ppm
Nitrite	0.0-2.0 ppm
pH	4.5-10.0
Phosphate	0.0-2.0 ppm

FX Salt Water Reagent Disks

Order Code 4354-H

Test Parameter	Range
Alkalinity	0-300 ppm 17.0 dKH
Ammonia	0.0-3.0 ppm
Calcium	200-800 ppm
Magnesium*	500-2200 ppm
Nitrate	0-60 ppm
Nitrite	0.0-2.0 ppm
pH	6.5-10.0
Phosphate	0.0-2.0 ppm

Brackish Tablet Package

Order Code 3865-PKG

For testing brackish water samples use the Brackish Tablet Package with the Saltwater FX203 SpinDisk

* Brackish samples will not report Magnesium

WaterLink® Solutions PRO
The Complete Water Analysis Solution

WaterLink® Solutions PRO

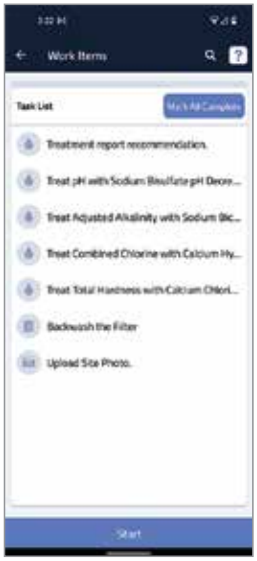
Create a free account at softwarecenter.lamotte.com

This versatile and robust cloud-based water analysis program stores records, offers customizable treatment recommendation reports, and can be accessed from any internet connected device. Apps are available for supported Android® and iOS® devices.

- A fully featured web-based water analysis program for pools, spas, or any other body of water
- Powerful, customizable treatment engine can handle any chemical system
- Colorful graphs and charts provide intuitive data analysis
- Schedule jobs and complete work orders
- Connect with WaterLink® Solutions HOME users for a cutting edge customer relationship
- Free to use for one user

Water Analysis To-Go

The WaterLink® Solutions PRO app for Android® and iOS® devices lets you test water anywhere, anytime.



Quick Work

Use the Work Wizard to complete scheduled jobs or just test on the fly. Receive full, step-by-step treatment recommendations for any customer in your database. Complete custom tasks and record actual dosage amounts for chemical treatments. Finish up by emailing a professional e-Receipt detailing the completed work to your customer. Everything is automatically saved in the cloud.

Free to Use

Visit softwarecenter.lamotte.com to sign up for a free account today. Optional monthly paid subscription tiers grant additional user licenses so multiple users can simultaneously log in.

WaterLink® Solutions HOME

Download on the App Store

GET IT ON Google Play

WaterLink® Solutions Home App

WaterLink® Solutions Home app offers pool and spa owners the ability to connect with their local retailer who is using WaterLink® Solutions PRO water analysis program. This allows homeowners to stay in touch with their local pool and spa professional. When connected to a Pro account, Home users can utilize the treatment profiles and chemicals from their local pool and spa professional, receiving treatment recommendations based on chemicals sold at their local retailer. The Home app is able to receive test results from the ColorQ® 2x photometer through Bluetooth® along with photo-scan our Insta-TEST® strips. Pro users can monitor Home user testing in real time.

Standardized pH Buffer Solutions

For use in calibration of pH meters.

pH Value	Order Code	Size
4.01	2866-J 2866-L	120 mL 500 mL
6.86	2808-L	500 mL
7.00	2881-J 2881-L	120 mL 500 mL
9.18	2809-L	120 mL
10.00	2896-J 2896-L	120 mL 500 mL

Color-Coded pH Buffer Solutions

Minute amount of color permits immediate visual distinction of different buffer values.

pH Value	Order Code	Color	Size
4.01	3771-L	Red	500 mL
7.00	3772-L	Yellow	500 mL
10.0	3773-L	Blue	500 mL

Conductivity/TDS Solutions

Ordering information for all buffers is listed below.

The following potassium chloride solutions can be used to standardize conductivity meters. TDS values are based on a 0.7 conversion from conductivity.

Order Code	Description	Size
6416-L	74 µS/cm, 52 ppm	500 mL
6312-L	84 µS/cm, 59 ppm	500 mL
6417-L	718 µS/cm, 503 ppm	500 mL
6354-L	1,413 µS/cm,989 ppm	500 mL
6418-L	6,668 µS/cm, 4668 ppm	500 mL
6317-L	12,880 µS/cm, 9016 ppm	500 mL
6419-L	58,640 µS/cm, 41,048 ppm	500 mL

TRACER PockeTesters

Total Chlorine TRACER

Order Code 1740

A pocket-sized ISE meter for measuring total chlorine. Use it to test pH and ORP with interchangeable flat surface sensors.

- Read Total Chlorine from 0.00-10 ppm
- Automatic self calibration; memory store up to 15 readings
- Chlorine and pH modes also display sample temperature
- Unit identifies which probe is in use and retains calibrations
- Automatic shut-off and Low Battery indicator
- Includes 100 reagent tablets
- Follows EPA protocol for ISE methods

Meter Specifications	
Test Factor	Total Chlorine
Range	0 to 9.99 ppm
Resolution	0.01 ppm
Accuracy	10%

TDS/SALT/CONDUCTIVITY/TEMP TRACER

Order Code 1749

- 2% accuracy for EC, TDS, and Salt modules
- Automatic temperature compensation
- Self calibration
- Memory can store up to 25 readings;
- Automatic shut-off; Low battery indicator

Options:

EC/TDS/SAL Replacement Electrode* Order Code 1765

Sample Cup w/cap Order Code 1745-1

Conductivity Standard, 84 µS, 30 mL Order Code 6312-G

Conductivity Standard, 1413 µS, 30 mL Order Code 6354-G

Conductivity Standard, 12,880 µS, 30 mL Order Code 6317-G

Meter Specifications	
Conductivity:	0 to 199.9 µS, 200 to 1999 µS, 2.00 to 19.99 mS
TDS:	0 to 9,999 ppm
Salinity:	0 to 9,999 ppm
Temperature:	32°F to 149°F (0 to 65°C)
Accuracy:	EC, TDS, Salt: ± 2% FS; Temperature: ± 1°C (1.8°F)

* Not interchangeable with Cl/pH/ORP TRACER

pH/TDS/SALT/CONDUCTIVITY/TEMP TRACER

Order Code 1766 · Shipping Code NH (1)

- Measures five parameters including Conductivity, TDS, Salinity, pH, and Temperature using one electrode
- Units of measure: pH, µS, mS, ppm, ppt, mg/L, g/L, °C, °F
- Memory stores up to 25 labeled readings; auto power off and low battery indicator
- Adjustable Conductivity to TDS ratio

Options:

pH/EC/TDS/SAL Replacement Electrode*, Order Code 1755

Sample Cups w/cap, Order Code 1745-1

Conductivity Standard, 84 µS, 30 mL, Order Code 6312-G

Conductivity Standard, 1413 µS, 30 mL, Order Code 6354-G

Conductivity Standard, 12,880 µS, 30 mL, Order Code 6317-G

Meter Specifications	
Conductivity:	0 to 199.9 µS, 200 to 1999 µS, 2.00 to 19.99 mS
TDS/Salinity:	0 to 99.9 ppm (mg/L), 100 to 999 ppm (mg/L), 1.00 to 9.99 ppt
pH:	0.00 to 14.00 pH
Temperature:	32°F to 149°F (0 to 65°C)
Accuracy:	TDS, Salt: ± 2%; pH: ± 0.01 pH; Temperature: ± 1°C (1.8°F)

* Not interchangeable with Cl/pH/ORP TRACER

Dissolved Oxygen TRACER

Order Code 1761 · Shipping Code NH (1)

- Oxygen level displayed as % Saturation from 0 to 200.0% or Concentration from 0 to 20.00 ppm (mg/L)
- Adjustable Altitude Compensation (0-20,000 ft in 1,000 ft increments)
- Adjustable Salinity Compensation from 0 to 50 ppt
- Memory stores up to 25 data sets with DO and Temperature reading
- Self-calibration on power up; Data, Hold, Auto power off, Low battery indicator
- Optional 3 ft (1m) or 16 ft (5m) extension cable;

Options:

DO Membrane Kit, 6 screw-on membranes and solution, Order Code 1761M

DO Sensor Module, Order Code 1762

3 ft. Cable, Order Code 1763

16 ft. Cable, Order Code 1764

Meter Specifications	
DO (sat. mode)	0 to 200.0%
DO (conc. mode)	0 to 20.00 ppm (mg/L)
Temperature	32 to 122°F (0 to 50°C)
Accuracy:	DO (sat. mode): ± 2% FS; DO (conc. mode): 0.4 ppm (mg/L); Temperature: ± 1°C (1.8°F)

ColorQ® 2x Meter

High and Low Range Chlorine Test Kit

ColorQ® 2x High Range Chlorine Test Kit

Order Code 2100

A perfect choice for analyzing your flushing and new main chlorine applications. Its simple operation allows swift measuring of total chlorine up to 750 ppm. The Bluetooth™ capable ColorQ® 2x photometer's large digital display helps deliver clear readings. Go digital and waterproof without breaking the bank!

Instrument Features:	
Instrument Type:	Dual Wavelength, waterproof, direct reading, colorimeter with Bluetooth communication
Digital Display:	128 x 64 graphic display
Wavelengths:	525nm and 568nm
Wavelength Accuracy:	±2nm
Light Sources:	LEDs
Detector:	Silicon photodiodes
Languages:	English
Interface:	push button and graphical display
Power:	DC 2.4 - 3.4V,
Battery:	2 AA batteries, ~0.40 A
Size (LxWxH):	3.9 X 2.9 X 3.9 inches
Weight:	7.2 oz, 204 g

Bluetooth® is a registered trademark of Bluetooth® SIG, Inc.

ColorQ® 2x Low Range Chlorine Test Kit

Order Code 2102

This compact meter can detect low chlorine residuals down to 0.05ppm and up to 4.00 ppm. The double-wide tubes, precise optics, and DPD reagents make the ColorQ® 2x ideal for compliance monitoring. The Bluetooth™ capable ColorQ® 2x photometer's large digital display helps deliver clear readings. This fast and easy to use, waterproof meter will help your budget go low too!

Instrument Features:	
Instrument Type:	Dual Wavelength, waterproof, direct reading, colorimeter with Bluetooth communication
Digital Display:	128 x 64 graphic display
Wavelengths:	528nm and 568nm
Wavelength Accuracy:	±2nm
Light Sources:	LEDs
Detector:	Silicon photodiodes
Languages:	English
Interface:	push button and graphical display
Power:	DC 2.4 - 3.4V,
Battery:	2 AA batteries, ~0.40 A
Size (LxWxH):	3.9 X 2.9 X 3.9 inches
Weight:	7.2 oz, 204 g

Bluetooth® is a registered trademark of Bluetooth® SIG, Inc.

2020t & 2020i Portable Turbidity Meters

Ratiometric Design

2020t & 2020i Portable Turbidity Meters

2020t Kit: Portable turbidity meter complies with EPA 180.1, Rev. 2.0 (1993) and Standard Methods 2130 B-2001 Order Code 1974-T · Shipping Code NH (6)

2020i Kit: Portable turbidity meter complies with ISO 7027 Standard Order Code 1974-I · Shipping Code NH (6)

RATIOMETRIC design in one of the most innovative, waterproof, handheld meters available on the market!

The multi-detector optical configuration assures long-term stability and minimizes stray light and color interference. The new ratiometric design allows for easy and accurate testing. The nephelometric mode measures 0-100 NTU/FNU, ratiometric mode 0-1000 NTRU/FNRU and 0-2000 AU/FAU. Now pinpoint the range of interest with better, more reliable results. Ideally suited for low-level drinking water applications, mid-range industrial applications, and high-range environmental applications.

These portable turbidimeters have the user in mind with these features:

- Seven user selected languages – English, Spanish, French, Japanese, Chinese, Italian, and Portuguese
- Advanced calibration algorithms
- Easy menu driven operation and large LCD display
- 500 point data log; stored results can be viewed directly on instrument

Additional advancements include:

- Waterproof to IP67
- Lithium rechargeable batteries
- USB port
- 7 languages
- Backlit display
- EPA and ISO versions

2020t version meets US EPA design criteria as specified by EPA 180.1, Rev. 2.0 (1993) and Standard Methods 2130 B-2001.

2020i version meets design criteria for quantitative methods of turbidity using optical turbidimeters as specified by ISO 7027. Best for colored or extremely turbid samples.

2020t Kits are supplied with 0, 1, and 10 NTU standards, sample bottle, four sample tubes, USB cable and wall adapter, while 2020i Kits are supplied with 0, 10, and 100 NFU standards, sample bottle, four sample tubes, USB cable and wall adapter.

Instrument Specifications:			
Mode	Ratiometric	Nephelometric	Attenuation
Unit of Measure 2020t	NTRU, NTU, ASBC, EBC	NTU, ASBC, EBC	AU, NTU, ASBC, EBC
Unit of Measure 2020i	FNRU, NTU, ASBC, EBC	FNU, NTU, ASBC, EBC	FAU, NTU, ASBC, EBC
Range	0-1,000 NTRU/ FNRU; 0-17,500 ASBC; 0-250 EBC	0-100 NTU/FNU; 0-1,750 ASBC; 0-25 EBC	0-2,000 AU/FAU; 0-70,000 ASBC; 0-1,000 EBC
Resolution	0–10.99 NTRU/ FNRU: 0.01; 11.0–109.9 NTRU/FNRU: 0.1; 110–1000 NTRU/FNRU: 1	0–10.99 NTU/ FNU: 0.01; 11.0–100.0 NTU/ FNU: 0.1	0–2000 AU/ FAU: 1
Accuracy	0-2.5 NTRU/FNRU: ±0.05; 2.5-100 NTRU/FNRU: ±2%; 100-1000 NTRU/ FNRU: ±3%	0-2.5 NTU/FNU: ±0.05; 2.5-100 NTU/FNU: ±2%	0-2000 AU/FAU; ±10 AU/FAU or 6%, whichever is greater
Detection Limit	0.05 NTRU/FNRU	0.05 NTU/FNU	10 AU/FAU
Reproducibility	0.02 NTRU/FNRU or 1%	0.02 NTU/FNU or 1%	1%
Range Selection	Automatic		
Light Source	2020t: Tungsten lamp 2300 °K ±50 °K; 2020i: IR LED 860 nm ±10 nm, spectral bandwidth with 50 nm		
Detector	2020t: Photodiode, centered at 90° and 180°, maximum peak 400-600 nm; 2020i: Photodiode, centered at 90° and 180°		

Accessories & Replacement Items:

- 0 NTU Standard (EPA and ISO), 60 mL (Order Code 1480)
- 1 NTU Standard (EPA), 60 mL (Order Code 1441)
- 1 FNU Standard (ISO), 60 mL (Order Code 1446)
- 10 NTU Standard (EPA), 60 mL (Order Code 1442)
- 10 FNU Standard (ISO), 60 mL (Order Code 1447)
- 100 NTU Standard (EPA), 60 mL (Order Code 1443)
- 100 FNU Standard (ISO), 60 mL (Order Code 1444)
- USB Cable (Order Code 1720-01)
- Wall Adapter (Order Code 1721)
- Six-pack of vials (Order Code 0260-6)
- Car Charger (Order Code 5-0132)

Model DC1500

Single Test Colorimeter Labs

DC1500 Single Test Colorimeter Labs

See Individual Single Test Colorimeters Labs Table for Order Codes

The 1500 Series of single test, direct reading colorimeters incorporates design advances that enhance reliability, improve accuracy, and simplify the calibration process, all in a portable, hand-held package.

Features Include

- Field & Lab Use: USB cable and wall adapter included; car charger optional
- Rechargeable lithium ion battery: No need to buy batteries again
- EPA Compliant: Uses proper wavelength and DPD test method to meet EPA design specifications for NPDWR and NPDES chlorine monitoring programs (EPA 330.5 and Standard Method 4500)
- 0-4 ppm Chlorine: No need to select a low or high range. The DC1500 covers the entire critical chlorine range of 0-4 ppm with an MDL of 0.03 ppm.
- A Great Value: Complete, economical package! The DC1500 Chlorine Colorimeter Kit includes tablets for 100 tests or liquid reagents for 140 tests, six sample vials, and a sturdy carrying case.
- IP67 Waterproof Design: Designed with excessive exposure to moisture in mind, the DC1500 colorimeter delivers trouble-free performance
- Bold, backlit display
- European CE Mark
- USB port

Available Single Test Colorimeter Labs

Labs by Factor	Order Code	Range (ppm)	Detection Limit	Test Method (# of reagents)	# of Tests
Absorbance (for 10mm cuvettes)	3250	568 nm	NA	NA	NA
Ammonia Nitrogen	3241	0–5.0	0.05	Nessler (2)	60
Chlorine (Free & Total)	3240	0–4.0	0.05	DPD Tablets (2)	100
Chlorine (Free & Total)	3240-LI	0–4.0	0.05	DPD Liquid (3)	140
Chlorine Dioxide	3244	0–7.0	0.05	DPD with Glycine Solution (2)	100
Copper	3245	0–6.0	0.03	Diethyldithiocarbamate (1)	100
Fluoride	3243	0–2.0	0.1	Alizarin-Zirconyl (2)	100
Iron	3248	0–5.0	0.25	1,10 Phenanthroline (2)	100
Molybdenum	3246	0–30	0.5	Thioglycolate (3)	50
Ozone	3249	0-0.4	0.04	Indigo Blue (3)	100
Phosphate	3242	0–3.0	0.07	Ascorbic Acid (2)	100

* Range as ppm except as otherwise indicated

Options:

- USB Cable, 3 feet length (Order Code 1720-01)
- USB Wall Adapter, 100-240V (Order Code 1721)
- Replacement Tubes (Order Code 0290-6)

Additional advancements include:

- Superior narrow band-width interference filters
- Simple, menu-driven operation
- Auto-off

Instrument Features:	
Instrument Type:	Single wavelength, direct-reading colorimeter
Digital Display:	160 x 100 backlit LCD, 20 x 6 line graphical
Wavelength Accuracy:	±2% FS
Wavelength Bandwidth:	10 nm typical
Light Sources:	LED
Detector:	Silicon photodiode with integrated interference filter
Modes:	Pre-programmed test, absorbance, %T
Languages:	English, Spanish, French, Portuguese, Italian,
Sample Chamber:	Accepts 25mm diameter flat-bottom, screwcap tubes (6 included)
Interface:	Mini USB port
Power:	Lithium ion rechargeable battery, 3.7v, 2.5 x .75
Battery:	Charge Life: Approx. 380 tests with backlight
Battery Life:	Approx. 500 charges
Auto Shut-off:	Disabled, 5, 10, 50 minutes
Size (LxWxH):	17 x 16 x 9 cm; 6.9 x 3.25 x 2.5 inches

TC3000 t/i

Turbidity • Chlorine • Color

TC3000t/TC3000i Turbidity, Chlorine & Color Meter

Order Code 1976-T; Order Code 1976-I

Ratiometric design for turbidity allows for easy and accurate testing!

- Ideally suited for both low-level drinking water applications as well as monitoring high turbidity in the field
- Advanced IR emitter (TC3000i only)
- Supports 7 languages: English, French, Spanish, Japanese, Italian, Portuguese, Chinese
- Data logging up to 500 points with a date and time stamp—stored tests can be viewed on the meter or downloaded to a PC
- Easy-to-read graphic LCD display
- Easy menu-driven operation

Instrument Features:	
Waterproof	IP67
Signal Averaging	Turbidity
Power	USB computer/wall adapter or Lithium ion rechargeable battery 2200 mAH, 3.7V
Data Logging	500 points
Auto Shut-Off	Disabled, 5, 10, 30 minutes
Languages	English, French, Spanish, Japanese, Italian, Portuguese, Chinese
Response Time	<2 seconds
Dimensions	8.4 cm W x 19.05 cm D x 6.35 cm H; 3.5" W x 7.5" D x 2.2" H

Turbidity

Unit of Measure	NTU (TC3000t only), FNU (TC3000i only), AU, FAU, ASBC, EBC
Range*	0-2000 NTU/FNU, 0-10,500 ASBC, 0-150 EBC
Resolution*	0.01 NTU/FNU, 0.00-10.99 NTU/FNU range; 0.1 NTU/FNU. 11.0-109.9 NTU/FNU range; 1 NTU/FNU, 110-4000 NTU/FNU range
Accuracy*	From 0-2.5 NTU/FNU the accuracy is ±0.05 NTU/FNU. From 2.5-100 NTU/FNU the accuracy is ±2%. Above 100 NTU/FNU the accuracy is ±3%
Detection Limit	0.05 NTU/FNU
Range Selection	Automatic
Reproducibility*	0.02 NTU/FNU, or 1%
Light Source	TC3000t: Complies with EPA 180.1 and Standard Methods 2130 B TC3000i: Complies with ISO 7027

* Over 600 NTU/FNU units expressed as AU/FAU

Chlorine

Unit of Measure	Parts Per Million (ppm), Milligrams Per Liter (mg/L)
Range*	0-10.0 ppm Free & Total Chlorine*
Resolution*	0.01 ppm, 0.00-5.00 ppm range; 0.1 ppm. 5.0-10.00 ppm range
Accuracy*	0-1.0 ppm range: ±0.03 ppm; 1.0-3.0 ppm range: ±0.06 ppm; 3.0-6.0 ppm range: ±0.3 ppm; 6.0-10.0 ppm range: ±2.5 ppm
Detection Limit	0.03 ppm
Light Source	Complies with Standard Methods 4500-Cl-G and EPA 330.5

* Above 10.0 ppm an "over range"alert displays prior to showing test results. A 1:1 dilution is recommended for reliable results above 10.0 ppm

Color

Unit of Measure	Platinum Cobalt Color Units (cu)
Range*	0-800 cu
Resolution*	1 cu, 0-800 cu range
Accuracy*	±15 cu
Detection Limit	20 cu
Light Source	Based on Standard Methods 2120 C

durable waterproof CASE

SMART3 Colorimeter

Order Code 1910

70+ Pre-Programmed Tests! The user-friendly SMART3 Colorimeter is the ideal direct reading colorimeter for complete on-site water analyses.

All pre-programmed tests can be run on these compact instruments and each test features automatic wavelength selection. The entire multi-LED optical system is embedded in the light chamber and optimized for LaMotte test reagent systems. The analyst can simply select the test and put in the sample with reagent. The microprocessor, which selects the wavelength, also allows the user to load up to 25 tests for analyzing custom reagent systems. LaMotte stands behind every system we provide.

These portable colorimeters have the user in mind with these advanced features:

- IP67 Waterproof
- Simple, menu-driven operation
- Alphabetical test selection
- User-selected test sequences
- Self diagnostics with error/warning messages
- Instant readiness without "count down" delays; achieved by active stabilization of lamp intensity
- Auto-blank; Auto-off
- European CE mark

The user may select any of the wavelengths in each meter to determine the absorbance or %T of a sample at the desired wavelength.

Additional advancements include:

- Superior narrow band-width interference filters
- LCD display for improved readability
- USB interface
- Lithium ion rechargeable battery, USB computer adapter is included

As well as the incorporated features:

- All wavelength filters - 428, 525, 568, 635 nm (SMART3 only)
- USB port
- and more...

NOTE: SMART 3 Turbidity is not the same as EPA 180.1 Turbidity

SMART3 Comes with 6 sample tubes, power charger and manual

Accessories & Replacement Items	
Smartcheck Standards	Code 4148
Replacement Sample Chamber Cup	Code 3-0038
COD Adapter	Code 1724
6 Sample Tubes	Code 0290-6
USB Cable	Code 1720-01
USB Power Plug	Code 1721
Car Charger	Code 5-0132
Small Case	Code 1910-GCS150
Large Case	Code 1910-GCS440

Instrument Specifications:	
Range:	0-125%T
Resolution:	1% FS
Accuracy:	2% FS
CE Mark:	Yes
Light Source:	LED/Filter setup; 428nm, 525nm, 568nm, 638nm
Detector:	Photodiode
Display:	160x100 Backlight LCD, 20x4 line graphics display
Languages:	English, French, Spanish, Italian, Portuguese, Chinese, Japanese
Sample Cell:	25 mm round cell, 10 mm square cuvette, 16 mm COD tubes
Datalogging:	Up to 500 data points, USB transfer, time and date stamped
Keypad:	6-button mechanical
Calibration:	Factory set - user adjustable
Languages:	English, French, Spanish, Portuguese, Italian, Chinese and Japanese.
Power:	USB computer/power charger or Lithium Ion rechargeable battery, 3.7V, 2.5" x 0.75", 1.7 oz.
Dimensions:	19.05 x 8.84 x 6.35 cm; 7.5 x 3.5 x 2.5 inches
Weight:	15 ounces
Bandwidth:	10 mm typical

SMART3 Colorimeter Reagent Systems

New tests are being developed for the SMART 3 Colorimeter.
Please contact our Technical Service Department for information regarding additions.

Test Factor	Test Method (# of reagents)	Range ppm*	# of Tests	Order Code	Shipping Code/ Prop 65‡
Alkalinity	Tablet, Colorimetric (1)	10-250	50	3670-SC	NH
Aluminum‡	Eriochrome Cyanine R (4)	0.01-0.30	50	3641-01-SC	NH/R
Ammonia Nitrogen LR ‡ (Fresh & Salt Water)	Salicylate (3)	0.05-1.00/ 0.10-1.00	25	3659-02-SC	R2/R
Ammonia Nitrogen HR‡	Nesslerization (2)	0.05-4.00	50	3642-SC	R1/R
Barium‡	Barium Chloride (1)	5-200	50	3638-SC	NH/R
Biquinide	Colorimetric (1)	2-70	50	4044	NH
Boron	Azomethine-H (2)	0.05-0.80	50	4868-01	NH
Bromine	Liquid, DPD (3)	0.00-3.00	144	4859	R1
Bromine	DPD Tablets (3)	0.10-9.00	100	3643-SC	NH
Cadmium‡	PAN (4)	0.02-1.00	50	4017-01	R1/R
Carbohydrazide	Iron Reduction (3)	0.04-0.90	100	4857	R1
Chloride	Tablet, Argentometric (1)	0.4-30.0	50	3693-SC	NH
Chlorine (Free & Total)	DPD Tablets (3)	0.03-4.00	100	3643-SC	NH
Chlorine	Liquid, DPD (3)	0.03-4.00	144	4859	R1
Chlorine Dioxide	DPD tablet/Glycine (2)	0.06-8.00	100	3644-SC	NH
Chromium (Hexavalent)	Diphenylcarbohydrazide (1)	0.01-1.00	100	3645-SC	HA
Chromium (Total, Hex & Trivalent)	Diphenylcarbohydrazide (5)	0.01-1.00	100	3698-SC	HF
Cobalt‡	PAN (3)	0.04-2.00	50	4851-01	HF/R
COD LR with Mercury†	Digestion (1)	5-150 mg/L	25	0075-SC	R1
COD LR without Mercury†	Digestion (1)	5-150 mg/L	25	0072-SC	R1
COD SR with Mercury†	Digestion (1)	50-1,500 mg/L	25	0076-SC	R1
COD SR without Mercury†	Digestion (1)	50-1,500 mg/L	25	0073-SC	R1
COD HR with Mercury†	Digestion (1)	500-15,000 mg/L	25	0077-SC	R1
COD HR without Mercury†‡	Digestion (1)	500-15,000 mg/L	25	0074-SC	R1/R
Color	Platinum Cobalt (0)	20-1,000 Cu	∞	NA	NH
Copper BCA - LR	Bicinchoninic Acid (1)	0.04-3.50	50	3640-SC	NH
Copper	Cuprizone (2)	0.03-2.00	50	4023	R1
Copper DDC‡	Diethyldithiocarbamate (1)	0.10-6.00	100	3646-SC	NH/B
Cyanide	Pyridine-Barbituric Acid (5)	0.03-0.35	50	3660-01-SC	R1
Cyanuric Acid	Melamine (1)	10-200	40	3661-01-SC	NH
Cyanuric Acid	Tablet, Melamine (1)	10-110	50	3673-SC	NH
DEHA	Iron Reduction (3)	0.01-0.70	100	4857	R1
Dissolved Oxygen (DO)	Winkler Colorimetric (3)	0.6-11.0	200	3688-SC	R1
Erythorbic Acid	Iron Reduction (3)	0.02-3.00	100	4857	R1
Fluoride	SPADNS (2)	0.1-2.0	50	3647-02-SC	R1
Hardness, Total	Tablet, Colorimetric (1)	10-400	50	3671-SC	NH
Hydrazine	p-dimethylaminobenzaldehyde (2)	0.01-0.75	50	3656-01-SC	NH
Hydrogen Peroxide LR	DPD (2)	0.02-1.50	100	3662-SC	NH
Hydrogen Peroxide HR	DPD (2)	1-60	100	4045-01	NH

* Range as ppm except as otherwise indicated
† Requires COD Heater Block - Order Code 5-0102 (Sold Separately; See Page 21) & COD Adapter - Order Code 1724 (Sold Separately)
‡ Prop 65: C: ⚠ WARNING Cancer - www.P65Warnings.ca.gov/product; R: ⚠ WARNING Reproductive Harm - www.P65Warnings.ca.gov/product; B: ⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

SMART3 Colorimeter Reagent Systems

New tests are being developed for the SMART 3 Colorimeter.
Please contact our Technical Service Department for information regarding additions.

Test Factor	Test Method (# of reagents)	Range ppm*	# of Tests	Order Code	Shipping Code/ Prop 65‡
Hydrogen Peroxide Shock	DPD (2)	10-225	100	4045-01	R2
Hydroquinone	Iron Reduction (3)	0.01-2.00	100	4857	R1
Iodine	DPD Tablets (2)	0.2-14.0	100	3643-SC	NH
Iron	Bipyridyl (2)	0.10-6.00	50	3648-SC	R1
Iron, Total, Ferrous, Ferric	1,10 Phenanthroline (2)	0.1-5.0	50	3668-SC	R1
Lead	PAR (5)	0.1-5.0	50	4031-01	R1/C
Manganese LR‡	PAN (3)	0.01-0.70	50	3658-01-SC	HF/R
Manganese HR‡	Periodate (2)	0.3-15.0	50	3669-SC	R1
Methylethylketoxime	Iron Reduction (3)	0.01-3.00	100	4857	R1
Molybdenum HR	Thioglycolate (3)	0.6-50.0	50	3699-03-SC	R1
Nickel‡	Dimethylglyoxime (6)	0.15-8.00	50	3663-01-SC	HF/R
Nitrate Nitrogen LR‡	Cadmium Reduction (2)	0.10-3.00	20	3649-01-SC	R1/B
Nitrate	Tablet, Zinc Reduction (1)	5-60	50	3689-SC	NH
Nitrite Nitrogen LR	Diazotization (2)	0.02-0.80	20	3650-SC	NH
Oxygen Scavengers	Iron Reduction	various	100	4857	R1
Ozone	DPD (4)	0.03-3.00	100	4881-01	NH
Ozone LR	Indigo Trisulfonate (3)	0.01-0.40	100	3651-SC	NH
Ozone HR	Indigo Trisulfonate (3)	0.05-2.50	20	3651-SC	NH
pH CPR	Chlorophenyl Red (1)	pH 5.0-6.8	100	3700-01-SC	NH
pH PR	Liquid, Phenol Red (1)	pH 6.6-8.4	100	3700-01-SC	NH
pH TB	Thymol Blue (1)	pH 8.0-9.5	100	3700-01-SC	NH
pH	Tablet, Phenol Red (1)	pH 6.6-8.4	50	3672-SC	NH
Phenol	Aminoantipyrine (3)	0.05-6.00	50	3652-01-SC	NH
Phosphate LR‡	Ascorbic Acid Reduction (2)	0.05-3.00	50	3653-SC	R2/C
Phosphate HR	Vanodomolybdovanadate Acid (1)	1-70	50	3655-SC	R1
Phosphorus, ppb†‡	Ascorbic Acid/Digestion (5)	50-3000	50	3653-SC	R2/C
Phosphorus, Total - LR†	Ascorbic Acid/Digestion (5)	0.50-3.50 mg/L	25	4024-01	R1
Phosphorus, Total - HR†	Molybdovanadate/ Digestion (5)	5-100mg/L	25	4025-01	R1
Potassium	Tetraphenylboron (2)	0.8-10.0	100	3639-SC	R1
Silica LR	Heteropoly Blue (4)	0.05-4.00	100	3664-SC	R1
Silica HR	Silicomolybdate (3)	1-75	50	3687-SC	R1
Sulfate HR	Barium Chloride (1)	3-100	100	3665-SC	R1
Sulfide LR	Methylene Blue (3)	0.06-1.50	50	3654-02-SC	R1
Surfactants‡	Bromthymol Blue (3)	0.5-8.0	100	4876-01	HF/B
Tannin	Tungsto-Molybdophosphoric Acid (2)	0.1-10.0	50	3666-01-SC	R1
Turbidity	Absorptimetric (0)	3-400 FTU	◦	NA	NH
Urea	Urease/Salicylate (4)	0.4-6.0	50	3674-SC	LQ
Zinc LR‡	Zincon (6)	0.05-3.00	50	3667-01-SC	HF/B

* Range as ppm except as otherwise indicated
† Requires COD Heater Block - Order Code 5-0102 (Sold Separately; See Page 21) & COD Adapter - Order Code 1724 (Sold Separately)
‡ Prop 65: C: ⚠ WARNING Cancer - www.P65Warnings.ca.gov/product; R: ⚠ WARNING Reproductive Harm - www.P65Warnings.ca.gov/product; B: ⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

Insta-Test® Strips

Convenient and Economical

Sanitizer Test Papers and Strips

Chemically treated paper strips change to indicate sanitizer level. Strips and color chart are packaged in a waterproof plastic vial. 2951 is specifically formulated to read all types of QAC.

LaMotte continues to work hard minimizing the use of plastics in our packaging. Led by demands from our customers we have managed to eliminate almost 100% of our plastic outer packaging. Our new fully recyclable InstaTEST hanging outer boxes allow us to continue our environmentally responsible journey.

Test Papers

Test Factor	Range	# of Tests Per Vial	Order Code
Chlorine	10, 50, 100, 200 ppm	200	4250-BJ
Iodine	12, 25, 50, 100 ppm	200	2948-BJ

Test Strips

Test Factor	Range	# of Tests Per Vial	Order Code
Peracetic Acid	0, 10, 20, 40, 60, 85, 160	50	3000
Peracetic Acid, Low Range	0, 5, 10, 20, 30, 50	50	3000LR
Peracetic Acid, High Range	0, 50, 100, 250, 500, 1000	50	3000HR
QAC	0, 100, 200, 300, 400, 500 ppm	100	3072-J
QAC	50, 100, 200, 400 ppm	100	2951
High Range Chlorine	0, 50, 100, 250, 500, 800 ppm	50	3031
Dual Range QAC	LR: 0, 10, 20, 40, 80 ppm; HR: 0, 100, 200, 400, 800 ppm	50	2934
High Range QAC	200, 400, 600, 1000, 1500 ppm	50	2951HR

Standard pH Test Papers

pH Range	Order Code
3.0–10.0	2912
0–14	3-2950
4.5–7.5	2953
0–13	2954
1–11	2956
8–12	2959

Insta-Test® Strips

Convenient and Economical

Single Factor Test Strips

Test Factor	Order Code	Range (ppm)	Water Testing Application*	# of Tests Per Factor/Per Vial	Values (ppm)
Alkalinity	2997	0-180	Drinking, Food/Beverage	50	0, 40, 80, 120, 180
Ammonia	3023-G	0-6	Food/Beverage/Drinking	25	0, 0.5, 1.0, 3.0, 6.0
Borate	3017-G	0-80	Pool	25	0, 15, 30, 50, 80
Chlorine Dioxide	2999	0-10	Drinking, Food/Beverage	50	0, 1, 3, 5, 10
Chlorine Dioxide, Low Range	2999LR	0-10	Drinking, Food/Beverage	50	0, 0.25, 0.5, 1, 3, 10
Chlorine Dioxide	3002	0-500	Medical, Food/Beverage	50	0, 10, 25, 50, 100, 250, 500
Chlorine, Free, Low Range	2964-G	0-10	Drinking, Food/Beverage, Medical	25	0, 0.5, 1, 3, 5, 10
Chlorine, Total, Low Range	2963LR-G	0-10	Drinking, Food/Beverage, Medical	25	0, 0.25, 0.5, 1, 3, 10
Chlorine, Total, Low Range	2963LR-J	0-10	Drinking, Food/Beverage, Medical	100	0, 0.25, 0.5, 1, 3, 10
Chlorine, Total, Low Range	2979	0-5	Drinking, Food/Beverage	50	0, 0.5, 1, 3, 5
Chlorine, Free & Total	3027-G	0-10	Drinking, Food/Beverage, Medical	25	0, 0.5, 1, 3, 5, 10
Chlorine, High Range	3031	0-800	Food/Beverage, Medical	50	0, 50, 100, 250, 500, 800
Copper	2991-G	0-3.0	Drinking, Pool	25	0, 0.3, 0.6, 1, 3
Hardness, Low Range	2981	0-180	Drinking, Food/Beverage	50	0, 30, 60, 120, 180
Iron	2935-G	0-5	Drinking, Pool	25	0, 0.3, 0.6, 1, 3, 5
Lead Screening	5-0140	5 ppb	Drinking	10	Yes/No at 5 ppb
Nitrate	3012-G	0-200	Pool	25	0, 10, 30, 60, 120, 200
pH, Wide Range	2974	4-10 (pH)	Drinking, Food/Beverage	50	4, 5, 6, 7, 8, 9, 10
Peracetic Acid	3000	0-160	Food/Beverage	50	0, 10, 20, 50, 85, 160
Peracetic Acid, Low Range	3000LR	0-50	Food/Beverage	50	0, 5, 10, 20, 30, 50
Peracetic Acid, High Range	3000HR	0-1000	Food/Beverage	50	0, 50, 100, 250, 500, 1000
Hydrogen Peroxide HR	2984	0-90	Pool	25	0, 15, 30, 50, 90
Hydrogen Peroxide	2984LR	0-50	Drinking, Food/Beverage	25	0, 1, 3, 10, 30, 30, 50
Phosphate, Low Range†	3021-G-ENV	0-2500 ppb	Environmental	25	0, 100, 200, 300, 500, 1000, 2500 ppb
Phosphate, High Range	3040-G	3000-12000 ppb	Pool	25	3000, 6000, 12000 ppb
QAC Dual Range	2934	0-80; 0-800	Food/Beverage	50	Low: 0, 10, 20, 40, 80 ppm; High: 0, 100, 200, 400, 800 ppm
Sodium Chloride† (sold in case of 12)	2998	1500-5000	Pool	10	1500, 2000, 2500, 3000, 3500, 4000, 5000

* Strips shown have been evaluated for use in these applications. Use in other applications is subject to potential interferences. Contact LaMotte Technical Services for more information.

† Also available in 50 test strips per vial.

Insta-Test® Strips

Accurate and Reliable

Multi-Factor Test Strips

Test Factor	Order Code	Range (ppm)	Water Testing Application*	# of Tests Per Factor/ Per Vial	Values (ppm)
Chlorine (Total), Wide Range pH & Hardness	2993-G	0-10 TC; 4-10 pH; 0-450 Total Hardness; (0-26 gpg Total Hardness);	Drinking, Industrial	25	0, 0.5, 1, 3, 5, 10; 4, 5, 6, 7, 8, 9, 10; 0, 50, 100, 200, 450; 0, 3, 5.8, 11.7, 26
Chlorine (Total), Wide Range pH & Hardness	2993-J	0-10 TC; 4-10 pH; 0-450 Total Hardness; (0-26 gpg Total Hardness);	Drinking	100	0, 0.5, 1, 3, 5, 10; 4, 5, 6, 7, 8, 9, 10; 0, 50, 100, 200, 450; 0, 3, 5.8, 11.7, 26
Copper, pH, & Alkalinity (sold in case of 12)	3001-G	0-3 Copper; 6.2-8.4 pH; 0-240 Alkalinity	Pool	25; 25; 25	0, 0.3, 0.6, 1, 3; 6.2, 6.8, 7.2, 7.6, 8.0, 8.4; 0, 40, 80, 120, 180, 240
Iron & Copper	2994	0-5 Iron; 0-3 Copper	Drinking, Pool	25; 25	0, 0.3, 0.5, 1, 3, 5; 0, 0.3, 0.6, 1, 3
Iron, pH, Hardness, Total Chlorine	2992	0-5 Iron; 4-10 pH; 0-400 Hard; 0-10 TCl	Drinking, Industrial Water Features	25; 25; 25; 25	0, 0.3, 0.5, 1, 3, 5; 4, 5, 6, 7, 8, 9, 10; 0, 50, 100, 200, 400
Nitrate & Nitrite	2996	0-50 Nitrate; 0-10 Nitrite	Drinking	50; 50	0, 5, 10, 25, 50 (NO_3-N); 0, 0.5, 1, 5, 10 (NO_2-N)
pH & Total Chlorine (Wide Range)	2987-G	4-10 pH; 0-50 TCl	Drinking, Pool, Food/Beverage	25; 25	4, 5, 6, 7, 8, 9, 10; 0, 1, 5, 10, 20, 50
6-Way Drinking Water	2933-G	0-10 FCl; 0-10 TCl; 0-400 Total Hardness; (0-23 gpg Total Hardness); 4-10 pH; 0-10 Nitrite; 0-10 Nitrate	Drinking	25; 25; 25; 25; 25; 25	0, 0.5, 1, 3, 5, 10; 0, 0.5, 1, 3, 5, 10; 0, 50, 100, 200, 400; (gpg: 0, 3, 5.8, 11.7, 23); 4, 5, 6, 7, 8, 9, 10; 0, 0.5, 1, 5, 10; 0, 5, 10, 25, 50
5-Way Natural Water Fresh & Salt Water	3038-G	0-200 Nitrate; 0-10 Nitrite; 6.0-9.0 pH; 0-240 Alkalinity; 0-180 Total Hardness	Environmental, Aquarium	25; 25; 25; 25; 25	0, 20, 40, 80, 160, 200; 0, 0.5, 1, 3, 5, 10; 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0; 0, 40, 80, 120, 180, 240; 0, 30, 60, 120, 180

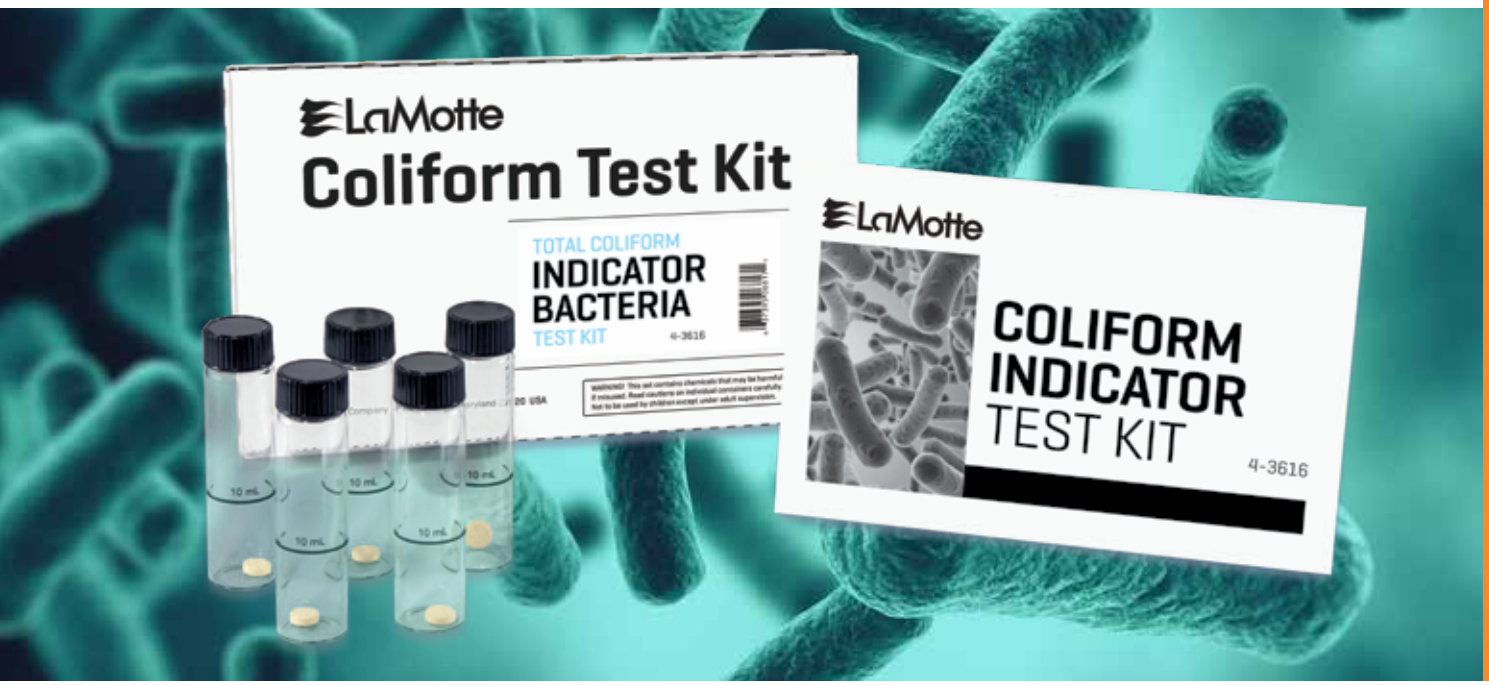
* Strips shown have been evaluated for use in these applications. Use in other applications is subject to potential interferences. Contact LaMotte Technical Services for more information.

Packaged Drinking Water Test Strips

Order Code 2936-FP · Shipping Code NH (3)

Each LaMotte Drinking Water Test Strip tests 5 important water quality parameters for both municipal and well water sources in only seconds! With a 2-second dip, each strip determines Free Chlorine, Total Chlorine, Total Hardness, pH, and Nitrate. Each plastic packet contains: 2 individually packed test strips, full-color instructions, and color chart.

Test Factor	Range	Increments
Free Chlorine	0-10	0, 0.5, 1, 3, 5, 10 ppm
Total Chlorine	0-10	0, 0.5, 1, 3, 5, 10 ppm
Total Hardness	0-400	0, 50, 100, 200, 400 ppm; 0, 3, 5.8, 11.7, 23 gpg
pH	4-10	4, 5, 6, 7, 8, 9, 10 pH
Nitrate	0-50	0, 5, 10, 25, 50 (NO_3-N) ppm



Coliform Screening Test

Order Code 4-3616 · Shipping Code NH (1)

A simple 5-tube method to indicate the presence or absence of Total Coliform Bacteria in drinking water.

- Presumptive test for Total Coliform Bacteria
- NO incubation equipment required
- Results in 44-48 hours at room temperature (70° - 85°F)
- 18-month shelf life
- Portable, no accessory labware required
- Ideal test for well water and coliform breakthrough in distribution systems
- Independent laboratory tested (results available upon request)
- Quantity discount for 8 and 24 kits

Code	Test System	Range/Sensitivity	# of Tests (# of Reagents)
4-3616	Tableted nutrient based on 5 tube MPN	Presence/Absence	1 (1)

Acidity | Caustic

Individual Test Kits

Order Code	Test System	Range/Sensitivity	# of Tests (# Reagents)	Reagent Refill Order Code
ACIDITY A standard base titrates acidity to the phenolphthalein endpoint.				
7182-01	HCl, H_2SO_4, H_3PO_4 Dropper Bottle	1 drop = 0.1 or 1.0% (as the particular acid)	50 at 10% (2)	R-7182-01
ALKALINITY Kits use titrations with standard acid to the phenolphthalein (P) and/or total (T) alkalinity endpoint. The mixed indicator, BCG-MR, is used for total alkalinity determinations.				
4491-DR-01	Total Alkalinity Direct Reading Titrator	0–200 ppm/4ppm as $CaCO_3$	50 at 200 ppm (2)	R-4491-DR-01
4533-DR-01	P & T Alkalinity Direct Reading Titrator	0–200 ppm/4 ppm as $CaCO_3$	50 at 200 ppm (3)	R-4533-DR-01
7240-02	P & T Alkalinity Dropper Bottle	1 drop = 10, 25, or 50 ppm as $CaCO_3$	100 at 500 ppm (3)	R-7240-02
3467-01*†	P & T Alkalinity Direct Reading Titrator	0–200 ppm/4 ppm as $CaCO_3$	50 at 200 ppm (3)	R-3467-01
ALUMINUM A pink to red color will form when aluminum reacts with Eriochrome Cyanine R at pH 6.				
3569-01	Octa-Slide 2 Comparator	0, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4, 0.5 ppm Al^{3+}	50 (2)	R-3569-01
AMMONIA NITROGEN Two colorimetric methods are available. The salicylate method is preferred for salt water analysis and does not contain mercury salts as does the Nessler method.				
3304-02	Salicylate, Octa-Slide 2 Comparator	0.0, 0.05, 0.1, 0.25, 0.5, 1.0, 2.0 ppm NH_3-N	50 (3)	R-3304-01
5864-01	Salicylate Color Chart	0.1, 0.25, 0.50, 1.0, 2.0, 4.0 ppm NH_3-N	50 (2)	R-5864-01
4795-01 ‡R	Nessler, Octa-Slide 2 Comparator	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0 ppm NH_3-N	50 (2)	R-3315
3241 DC1500-NH‡	Nessler Colorimeter	0–5.0/0.05	60	R-3241
BACTERIA See Microbiological Testing section page 19.				
BLEACH (See Chlorine Bleach)				
BROMINE Bromine may be tested using color development with a ferrous ammonium sulfate titration in the presence of DPD indicator.				
3624-01	FAS Chlorine or Bromine, Direct Reading Titrator	0–10 ppm/0.2 ppm Cl or Br; 0–100 ppm/2 ppm Cl or Br	50 at 10 ppm (3)	R-3624-01
CALCIUM (See Hardness)				
CARBON DIOXIDE A standard alkali is used to titrate samples to the phenolphthalein endpoint.				
7297-DR-01	Direct Reading Titrator	0–50 ppm/1.0 ppm CO_2	50 at 50 ppm (2)	R-7297-DR-01
CAUSTIC A sample is reacted with barium to precipitate any carbonates, then is titrated with a standard acid to the phenolphthalein endpoint. Kit 7181-01 includes a 1:10 dilution, resulting in a 1 drop = 0.1% or 1 drop = 1% equivalence.				
7516-DR-02	Direct Reading Titrator	0–10%/0.2% NaOH	50 at 10% (4)	R-7516-DR-02
7181-01	Dropper Bottle	1 drop = 0.1 or 1% NaOH	50 at 10% (3)	R-7181-01
CHELANT Free chelant is determined by using the back titration of a hardness test, with magnesium as the titrant. Since bismuth will displace other metals from chelants, it is used for total chelant determinations. Both tests use different sample sizes to determine NTA or EDTA.				
7143-01	Total Chelant, Dropper Bottle	1 drop = 5 ppm EDTA; 1 drop = 5 ppm NTA	100 (3)	R-7143-01
CHLORIDE The argentometric method is used with all kits. This employs a chromate indicator and silver nitrate titrant. Hydrogen peroxide is included with kit 7172-02 to eliminate sulfite interference.				
4503-DR-02	Direct Reading Titrator	0–200 ppm/4 ppm Cl^-; 0–20,000 ppm/400 ppm	50 at 200 ppm (4)	R-4503-DR-02
7459-02	Salinity, Direct Reading Titrator	0-20 ppt/0.4 ppt Salinity	50 at 20 ppt (2)	R-7459-02
7172-02	Dropper Bottle	1 drop = 10, 25, or 50 ppm Cl^-	120 at 100 ppm (5)	R-7172-02
CHLORINE Free, Combined and Total Chlorine may be determined using DPD with either colorimetric or titrimetric methods. These determinations are generally limited to concentrations of 0–10 ppm, FAS titration can test higher concentrations by dilution or with more DPD indicator. Higher concentrations require the iodometric titration, Iodometric determinations will only test total chlorine.				

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B: ⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

Order Code	Test System	Range/Sensitivity	# of Tests (# Reagents)	Reagent Refill Order Code
FREE & TOTAL				
3308-01*	DPD Tablet, Octa-Slide 2 Comparator	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm Cl	50 (2)	R-3308-01
3312-01*	DPD Tablet, Octa-Slide 2 Comparator	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 ppm Cl	50 (2)	R-3312-01
3314-01*	DPD Tablet, Octa-Slide 2 Comparator	Low: 0.1–1.0 ppm Cl; High: 1.0–6.0 ppm Cl	100 (2)	R-3314-01
3328-01	DPD Tablet, Octa-Slide 2 Comparator	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 ppm Cl	50 (2)	R-3328-01
3240 DC1500	DPD Tablet, Colorimeter	0–4.0 ppm/0.05 ppm Cl	100 (2)	R-3670-01
3240-LI DC1500-LI	DPD Liquid, Colorimeter	0–4.0 ppm/0.05 ppm Cl	144 (3)	R-3670-01-LI
DPD FREE, MONO & DICHLORAMINES, TOTAL CHLORINE, pH				
6980-01	DPD Tablet/Phenol Red Tablet, Octa-Slide 2 Comparator	Low: 0.1–1.0 ppm Cl; High: 1.0–6.0 ppm Cl; pH: 6.8–8.2	200 (5)	R-6980
DPD-FAS TITRATION FOR FREE AND TOTAL CHLORINE				
3176-02*†	Direct Reading Titrator	0–10 ppm/0.2 ppm Cl	50 at 10 ppm (4)	R-3176-02
3624-01	Chlorine or Bromine, Direct Reading Titrator	0–10 ppm/0.2 ppm Cl or Br; 0–100 ppm/2 ppm Cl or Br	50 at 10 ppm (3)	R-3624-01
7514-01	FAS, Dropper Bottle Titration	1 drop = 0.2 or 0.5 ppm Cl	50 (3)	R-7514-01
IODOMETRIC TITRATION (For higher total chlorine levels)				
4497-DR-01	Direct Reading Titrator	0–200 ppm/4 ppm Cl	50 at 200 ppm (3)	R-4497-DR-01
4497-01	Dropper Pipet	1 drop = 10 ppm Cl	50 at 200 ppm (3)	R-4497-01
4501-01	Dropper Pipet	1 drop = 1 ppm Cl	50 (3)	R-4501-01
CHLORINE BLEACH, IODOMETRIC TITRATION				
7105-03	Direct Reading Titrator	0–10%/0.2% Cl	50 at 10% (3)	R-7105-03
7894-01	Dropper Pipet	1 drop = 0.005%, 0.05%, or 0.5% Cl	50 at 0.1, 1.0, or 10% (3)	R-7894-01
CHLORINE TEST PAPERS/STRIPS See other Chlorine test strips on pages 16-18.				
4250-BJ	Chlorine Test Papers	10, 50, 100, 200 ppm, Cl	200 (1)	R-4250-BJ
2964-G	Chlorine Test Strips	0, 0.5, 1, 3, 5, 10 ppm, Free Cl	25 (1)	R-2964-G
2963LR-G	Chlorine Test Strips	0, 0.1, 0.25, 0.5, 1, 3, 10 ppm, Total Cl	25 (1)	R-2963LR-G
3031	Chlorine Test Strips	0, 50, 100, 250, 500, 800 ppm Cl	50 (1)	R-3031
2979	Chlorine Test Strips	0, 0.5, 1, 3, 5 ppm Total Cl	50 (1)	R-2979
CHLORINE DIOXIDE The colorimetric kits use DPD to determine chlorine dioxide. Chlorite up to 1,000 ppm and chlorine up to 2 ppm will not interfere with the test strip determinations.				
2999LR	Test Strip	0, 0.25, 0.50, 1.0, 3.0, 10 ppm	50	R-2999LR
3002	Test Strip	0, 10, 25, 50, 100, 250, 500 ppm	50	R-3002
3244 DC1500-CLO	Colorimeter	0–7 ppm/0.05 ppm ClO_2	100 (2)	R-3244
COLIFORM See also Microbiological Testing section page 19.				
COPPER A yellow color is formed when copper reacts with diethyldithiocarbamate (DDC). A blue color is formed when copper reacts with Cuprizone.				
3619	Cuprizone, Color Chart	0.05, 0.10, 0.15, 0.20, 0.30, 0.50, 0.70, 1.0 ppm Cu	50 (2)	R-3619
3245 DC1500-CO	DDC, Colorimeter	0–8 ppm/0.03 ppm Cu	100 (1)	R-3673-01
CYANIDE The cyanide is first reacted with a chlorine donor to form cyanogen chloride, which then reacts with pyridine-barbituric acid to form a red-blue color. The test is also applicable as a screening test for concentrations up to 250 ppm.				
7387-02	Octa-Slide 2 Comparator	0.0, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40 ppm Free CN^-	50 (5)	R-7387-02
DEHA Diethylhydroxylamine reacts with ferric iron to form ferrous iron, which is then measured by a standard iron test.				
4790-01	Octa-Slide 2 Comparator	0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.0, 1.5 ppm DEHA	100 (3)	R-4790-01
DETERGENTS Anionic surfactants are extracted with toluene, releasing bromphenol blue into a water layer. A standard color reagent is then used to determine the concentration.				
4507-02 ‡R	Dropper Pipet	1 drop = 1.0 ppm Detergent	60 at 5.0 ppm (3)	R-4507-02
FLUORIDE A red zirconium lake reacts with fluoride to form a colorless solution, which decreases the red color of the solution in proportion to concentration.				
3243 DC1500-FL	Colorimeter	0–2.0 ppm/0.03 ppm F^-	100 (2)	—
HARDNESS EDTA titration is used for all hardness determinations, with a red to blue endpoint. Both total and calcium hardness buffers include inhibitors to eliminate metal interferences. All results are as $CaCO_3$; some kits also express results as gpg.				
3609-01	Fresh & Salt Water Calcium Hardness, Direct Reading Titrator	0–200 ppm/4 ppm $CaCO_3$; 0-2,500 ppm by dilution	50 (3)	R-3609-01

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Chlorine Dioxide | Iodine

Order Code	Test System	Range/Sensitivity	# of Tests [# Reagents]	Reagent Refill Order Code
HARDNESS ...Continued				
4482-DR-LI-01	Total Hardness, Direct Reading Titrator	0–200 ppm/4ppm $CaCO_3$; Liquid Indicator	50 at 200 ppm [3]	R-4482-DR-LI-01
4482-LI-02	Total Hardness, Dropper Bottle	1 drop = 10 ppm or 1 gpg $CaCO_3$; Liquid Indicator	50 at 200 ppm; or 20 gpg [3]	R-4482-LI-02
4482-DR-LT-01	Total Hardness, Direct Reading Titrator	0–200 ppm/4 ppm $CaCO_3$; Tablet Indicator	50 at 200 ppm [3]	R-4482-DR-LT-01
4824-LT-02	Calcium, Magnesium, Total Hardness, Dropper Bottle	1 drop = 10 ppm or 1 gpg $CaCO_3$; Tablet Indicator	50 at 200 ppm; or 20 gpg [5]	R-4824-LT-02
4824-DR-LT-01	Calcium, Magnesium, Total Hardness, Direct Reading Titrator	0–200 ppm/4 ppm $CaCO_3$; Tablet Indicator	50 at 200 ppm [5]	R-4824-DR-LT-01
3037-DR-01	Low Range Total Hardness, Direct Reading Titrator	0–10 ppm/0.2 ppm $CaCO_3$	50 at 10 ppm [3]	R-3037-DR-01
7171-02	Total Hardness, Dropper Bottle	1 drop = 10, 25, or 50 ppm $CaCO_3$	100 [3]	R-7171-02
7246-02	Total Hardness, Dropper Bottle	1 drop = 2, 5, or 10 ppm $CaCO_3$	100 [3]	R-7246-02
HYDROGEN PEROXIDE Although peroxide may be tested colorimetrically with DPD, the most common method is iodometric titration using a standard thiosulfate solution. Both methods are offered.				
7138-DB-01	Iodometric, Dropper Bottle	1 drop = 5 ppm H_2O_2	50 [4]	R-7138-DB-01
7150-01	Iodometric, Dropper Bottle	1 drop = 0.5% H_2O_2	50 [4]	R-7150-01
2984LR	Test Strips	0, 1, 3, 10, 30, 50	25 [1]	R-2984LR-H
IODINE As with many other oxidizers, iodine may be titrated with a standard thiosulfate solution, hence the name iodometric titration.				
7253-DR-01	Direct Reading Titrator	0–50 ppm/1 ppm I_2	50 at 50 ppm [3]	R-7253-DR-01
7253-01	Dropper Pipet	1 drop = 2.5 ppm I_2	100 at 25 ppm [3]	R-7253-DR-01
2948-BJ	Test Papers	12, 25, 50, 100 ppm I_2	200	R-2948-BJ
IRON Bipyridyl is a ferrous iron indicator that tests total iron after any ferric iron is reduced to ferrous in the sample. Ferrous and ferric may be tested separately by eliminating the reduction step. A similar ferrous indicator, 1,10 phenanthroline, is used in the 3248 DC1500 kit.				
7787-01	Total Iron, LRC Comparator	0.05, 0.10, 0.20, 0.30, 0.40, 0.60, 0.80, 1.0 ppm Fe	30 [2]	R-7787-01
4447-01	Total Iron, Octa-Slide	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe	90 [2]	R-3318
3347-01	Ferrous/Ferric Iron, Octa-Slide 2 Comparator	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe	100 [3]	R-3347-01
3248 DC1500-FE	Total Iron, 1, 10 Phenanthroline Colorimeter	0–4.0 ppm/0.25 ppm Fe	100 [2]	R-3681-01
MANGANESE The 1-(2-pyridylazo)-2-naphthol(PAN) method forms an orange complex with manganese. Metal interferences with the PAN method can be eliminated using the 7104 Cyanide Inhibitor Package, sold separately.				
3588-02	PAN, Octa-Slide 2 Comparator	0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.0 ppm Mn	50 [4]	R-3588-02
MICROBIOLOGICAL TESTING See section page 19.				
MOLYBDATE/MOLYBDENUM There are three colorimetric methods and one titration method available. The 6628-01 uses Xanthogonate to form a pink color with molybdate. Thioglycolate forms a yellow color for low to high determinations. 3628-01 uses a new test strip technology that reads 0, 0.5, 1, 2 and 5 ppm. Results are available in about 1 minute. The sample size may be changed to vary the equivalence.				
3628-01	Test Strip	0, 0.5, 1.0, 2.0, 5.0 ppm	50 [1]	R-3628-01
6628-01	Xanthate, Sodium Molybdate, Octa-Slide 2 Comparator	1, 2, 3, 4, 5, 6, 8, 10 ppm Sodium Molybdate	100 [2]	R-6628-01
NITRATE NITROGEN The nitrate is reduced to nitrite by cadmium or zinc and undergoes diazotization/coupling to form a pinkish color. All kits below use cadmium except 3354-01. Kit 3519-01 tests both nitrate and nitrite. Kit 3119-01 uses one comparator that contains both nitrate and phosphate standards. The phosphate method in kit 3119-01 is an ascorbic acid reduction. .				
3119-01‡	Cadmium Reduction, Nitrate/ Phosphate; LRC Comparator	0.2, 0.4, 0.6, 1.0 ppm NO_3–N; 0.2, 0.4, 0.6, 1.0 ppm PO_4^{3-}	Nitrate: 40 [2]; Phosphate: 50 [2]	R-3119-01
3615-01‡	Cadmium Reduction, Nitrate/ Nitrite, LRC Comparator	0, 0.2, 0.4, 0.6, 0.8, 1.0 ppm NO_3–N	50 [2]	R-3615-01
3519-01‡	Cadmium Reduction, Octa-Slide 2 Comparator	0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0 ppm NO_3–N	40 [3]	R-3519-01
3354-01	Zinc Reduction, Octa-Slide 2 Comparator	0.0, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0, 15.0 ppm NO_3–N	50 [2]	R-3354-01
NITRITE NITROGEN As with nitrate, above, the diazotization/coupling reaction is used to form a pink color with nitrite.				
3352-01	Octa-Slide 2 Comparator	0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.80 ppm NO_2–N	50 [3]	R-3352-01
NITRITE, SODIUM Sodium nitrite is titrated using one of two methods. After acidifying the sample, permanganate will oxidize nitrite. When all of the nitrite is oxidized, the permanganate turns the sample pink. Ceric Ammonium Nitrate [CAN] also oxidizes the nitrite in the presence of ferroin indicator. The endpoint is orange to blue. The CAN method is preferred if glycol is present.				
7101-DR-01	Permanganate, Direct Reading Titrator	0–1000 ppm/20 ppm $NaNO_2$	50 at 1000 ppm [2]	R-7101-DR-01

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Order Code	Test System	Range/Sensitivity	# of Tests (# Reagents)	Reagent Refill Order Code
NITRITE, SODIUM ...Continued				
7101-01	Permanganate, Dropper Pipet	1 drop = 50 or 100 ppm $NaNO_2$	50 at 1000; or 2000 ppm (2)	R-7101-01
3036-DR-02	CAN, Direct Reading Titrator	0–1000 ppm/20 ppm $NaNO_2$	50 at 1000 ppm (2)	R-3036-DR-02
7183-02	CAN, Dropper Bottle	1 drop = 50 ppm $NaNO_2$	50 at 1000 ppm (2)	R-7183-02
OXYGEN, DISSOLVED The azide modification of the Winkler method is a modified iodometric titration whereby oxygen, in the presence of a strong alkali, oxidizes manganese, which in turn reacts with iodide to form iodine. This is titrated with a standard thiosulfate solution in the presence of a starch indicator to enhance the endpoint. Azide eliminates nitrite interference.				
5860-01	All liquid reagents Direct Reading Titrator	0–10 ppm/0.2 ppm O_2	50 at 10 ppm (5)	R-5860-01
OZONE DPD reacts with ozone, but any other oxidizers will interfere. The Indigo Trisulfonate method includes a step to eliminate chlorine interference, but bromine will interfere. It is preferred for the analysis of salt water samples.				
3249 DC1500-OZ	Indigo Trisulfonate, Colorimeter	0–0.4 ppm/0.04 ppm O_3	100 (3)	R-3678-01
PERACETIC ACID/HYDROGEN PEROXIDE This test is a combination of two separate titrations. The first is a cerium titration of peroxide. The second is an iodometric titration of peracetic acid.				
7191-02	Dropper Bottle	1 drop = 50 ppm Peroxide; 1 drop = 6, 15 or 300 ppm Peracetic Acid	50 (5)	R-7191-02
PERACETIC ACID TEST STRIP				
3000	Test Strips	0, 10, 20, 50, 85, 160 ppm	50	—
3000LR	Test Strips	0, 5, 10, 20, 30, 50 ppm	50	—
3000HR	Test Strips	0, 50, 100, 250, 500, 1000	50	—
pH TEST PAPERS				
2912	Test Papers	3.0-10.0 pH/1 pH	200 Strips	—
2953	Test Papers	4.5-7.5 pH/0.5 pH	1 Roll	—
2954	Test Papers	0-13 pH/1 pH	1 Roll	—
2956	Test Papers	1-11 pH/1 pH	1 Roll	—
2959	Test Papers	8-12 pH/0.5 pH	2 Rolls	—
3-2950	pH Indicator Sticks	0–14/1 pH	100 Strips	—
PHOSPHATE There are 3 colorimetric test methods. In two, a phosphomolybdate complex is reduced by stannous chloride or ascorbic acid to produce a blue color. In a third, phosphate forms a yellow complex with vanadomolybdate.				
3242 DC1500-PLR	Ascorbic Acid, Colorimeter	0–3.0 ppm/0.07 ppm PO_4^{3-}	100 (2)	R-3242
3121-02	Ascorbic Acid, LRC Comparator	0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0 ppm PO_4^{3-}	50 (2)	R-3121-02
3114-02	Ascorbic Acid, Octa-Slide 2 Comparator	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm and 5.0, 10.0, 20.0, 30.0, 40.0, 60.0, 80.0, 100.0 ppm PO_4^{3-}	50 (2)	R-3114-02
4408-01	Stannous Chloride, Octa-Slide 2 Comparator	Low: 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 ppm PO_4^{3-}; High: 10, 20, 30, 40, 50, 60, 80, 100 ppm PO_4^{3-}	50 (2)	R-4408-01
4401-02	Vanadate Molybdate, Octa-Slide 2 Comparator	10, 20, 30, 40, 50, 60, 70, 80 ppm PO_4^{3-}	50 (1)	R-4401-02
PHOSPHONATE The Chromazurol S method may be used for Dequest (xo), Bayhibit (CAS), Belcor 575 (xo) and Belsperse 161 phosphonates (CAS). An additional liquid acid is included for very high alkalinity samples. It also includes a fluoride inhibitor reagent.				
7625-DR-01	CAS, Direct Reading Titrator	0–20 ppm/0.4 ppm HEDP/PBTC	50 at 20 ppm (5)	R-7625-DR-01
7625-01	CAS, Dropper Pipet	1 drop = 1.25 ppm HEDP; 1 drop = 1.4 ppm PBTC	50 at 20 ppm (5)	R-7625-01
7530-DR-01	XO, Direct Reading Titrator	0–20 ppm/0.4 ppm NaAMP	50 at 20 ppm (5)	R-7530-DR-01
7530-WT-01	XO, Dropper Bottle	1 drop = 1 ppm NaAMP	50 at 20 ppm (5)	R-7530-WT-01
POLYQUAT The test is based on the reaction of the cationic polyquat with an anionic polyelectrolyte using Toluidine Blue O as the indicator. The color change is blue to purple.				
7056-01	Dropper Bottle	1 drop = 1 ppm Polyquat	100+ (5)	R-7056-01
POTASSIUM Sodium tetraphenylboron reacts with potassium to form a white precipitate. The turbidity of the solution is proportional to potassium concentration which is measured in a calibrated tube.				
3138-01	Turbidity Reading Tube	6, 8, 10, 20, 30, 40, 50 ppm K^+	100 (2)	R-3138-01
QAC Two methods are available. A masked bromphenol blue indicator is added to the sample and turns green. Sodium tetraphenyl-boron is added to complex the QAC and the color changes to red. This method is best suited to higher QAC concentrations. A poly-electrolytic titration, like the one used for polyquat, is used for low to high concentrations.				
3043-DR-01	BPB, Direct Reading Titrator	0–500 ppm/10 ppm; Alkyl dimethyl benzyl ammonium chloride	50 at 500 ppm (2)	R-3043-DR-01

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Peracetic Acid Test Strip | QAC

Order Code	Test System	Range/Sensitivity	# of Tests (# Reagents)	Reagent Refill Order Code
QAC ...Continued				
3042-01	BPB, Direct Reading Titrator	0-1,000 ppm/20 ppm; 0-5,000 ppm/100 ppm with dilution	50 at 1,000 ppm (2)	R-3042-01
7057-01	Polyelectrolytic, Dropper Bottle	1 drop = 2, 5, or 10 ppm; Alkyl dimethyl benzyl ammonium chloride	100+ (5)	R-7057-01
2951	Test Papers	50, 100, 200, 400 ppm	100	—
2951HR	Test Strips	200, 400, 600, 1000, 1500 ppm	50	—
SALINITY Salinity is based on the concentration of chloride. An argentometric titration with silver nitrate is used to determine the chloride concentration.				
7459-02 ‡B	Direct Reading Titrator	0–40 ppt/0.4 ppt Salinity	50 at 20 ppt (2)	R-7459-02
SILICA The heteropoly blue method tests for "molybdate-reactive" silica. 4463-01 uses a 1:10 dilution to expand the range of the kit to 100 ppm.				
4463-01	Octa-Slide 2 Comparator	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm; or 5, 10, 20, 30, 40, 60, 80, 100 ppm SiO_2	50 (4)	R-4463-01
SODIUM NITRITE (See Nitrite, Sodium)				
SULFATE Barium forms a precipitate with sulfate. The turbidity formed is measured using comparator standards or a meter.				
7778-01	Tablet, Octa-Slide 2 Comparator	20, 40, 60, 80, 100, 120, 160, 200 ppm SO_4^{2-}	50 (1)	R-7778-01
3247 DC1500-SU	Colorimeter	0–100 ppm/1.0 ppm SO_4^{2-}	100 (1)	R-3247
SULFIDE Both kits use the Pomeroy methylene blue method for analysis. The colorimetric method uses color standards to read total sulfide. Total, dissolved and hydrogen sulfide can be separated in the titration test. The total sulfide is determined using a color dye which is added to an unreacted sample until it matches a reacted sample. The same procedure is used for dissolved sulfide, after insoluble matter is removed by aluminum floc. Hydrogen sulfide is determined by measuring pH and multiplying the dissolved sulfide concentration by a pH correction factor.				
4456-01	Total Sulfide, Octa-Slide 2 Comparator	0.2, 0.5, 1.0, 2.0, 5.0, 10.0, 15.0, 20.0 ppm S^{2-}	50 (3)	R-4456-01
4630†*	Total, Dissolved & Hydrogen Sulfide, Dropper Pipet	1 drop = 1.0 or 0.1 ppm S^{2-} or H_2S	70 at 10 ppm (8)	R-4630†*
SULFITE An iodide-iodate titrant oxidizes sulfite to sulfate under acid conditions, until all of the sulfite is reacted. The titrant then reacts with starch to form a blue color signifying the endpoint.				
7175-DR-01	Direct Reading Titrator	0–100 ppm/2 ppm SO_3^{2-}	50 at 100 ppm (3)	R-7175-DR-01
7175-01	Dropper Pipet	1 drop = 5 ppm SO_3^{2-}	50 at 100 ppm (3)	R-7175-01
7132-01	Dropper Bottle	1 drop = 2, 5, or 10 ppm SO_3^{2-}	100+ (3)	R-7132-01
TANNIN/LIGNIN Tungstophosphoric and molybdophosphoric acids are reduced by tannins and lignins to form a blue color.				

Order Code	pH Indicator	Octa-Slide Comparator Color Standard Values In pH Units								Reagent Refill Oder Code
pH										
2109-01	Bromthymol Blue	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	R-2109-01
2111-01	Cresol Red	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	R-2111-01
2112-01	Thymol Blue	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	R-2112-01
5858-01	Precision Wide Range	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	—
		7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	
3353-01	Precision Wide Range	5.0	6.0	6.5	7.0	7.5	8.0	9.0	10.0	R-3353-01
7831-01	Octa-Slide 2 Comparator	1, 2, 3, 4, 5, 6, 8, 10 ppm Tannin or lignin like substances						50 (2)		R-7831-01
TURBIDITY Testing for turbidity in regulated water systems is a critical step in assuring compliance and treatment efficacy. See page 16-17 for instumention.										
ZINC In a solution buffered to pH 9, zincon reacts with zinc to form a blue color.										
7391-02	Octa-Slide 2 Comparator	0, 1, 2, 3, 4, 6, 8, 10 ppm Zn						50 (2)		R-7391-02
7417-02	Octa-Slide 2 Comparator	0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4 ppm Zn						50 (2)		R-7417-02

* (NPDWR) EPA Accepted † (NPDES) EPA Accepted · Direct Reading Titrators have a specific range, but may be refilled to test higher concentrations.
‡ Prop 65: C: ⚠ WARNING Cancer - www.P65Warnings.ca.gov/product; R: ⚠ WARNING Reproductive Harm - www.P65Warnings.ca.gov/product;
B: ⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov/product

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