



# Water Conditioning Testing Products



# LaMotte & Water Quality

Since 1919 LaMotte has been a committed leader in providing quality equipment and guidance for water analysis. Our philosophy has always been that **WE ARE IN BUSINESS TO HELP PEOPLE SOLVE ANALYTICAL CHALLENGES**. Today, we produce the broadest line of portable test equipment, and continue our focus on your specific needs by offering improved products and strong technical support.

Virtually all our reagents, instruments, and test kits are designed and manufactured in-house. Our Research and Development staff is constantly improving our existing products and seeking new methods and reagent packaging.

We believe the emphasis we place on **TECHNICAL SUPPORT** and **CUSTOMER SERVICE** helps distinguish LaMotte. Call our Technical Support toll-free number for guidance on product selection or assistance with any questions regarding LaMotte products.

Please visit our website at [www.lamotte.com](http://www.lamotte.com) where you can see all of our product catalogs, newsletters, MSDS, new product information, technical tips, and instructions.

If for any reason you are not satisfied with our products or service, please contact us.

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

**PRICES** are provided on the enclosed price list and are subject to change without prior notice. Prices are f.o.b. Chestertown, Maryland. A \$7.50 handling fee and a \$7.50 shipping fee are applied to all orders totaling less than \$35.00.

**PAYMENT TERMS** are net thirty days to accounts with established credit with LaMotte Company. New accounts should provide credit references or enclose payment with the purchase order. American Express, VISA and MasterCard accepted.

**PRODUCT CODE NUMBERS** Please include product code numbers and quantities.

**DISCLAIMER** Descriptions and photography within this catalog are believed to be accurate. LaMotte reserves the right to revise products and prices without notification of change.

## Test Methods

### Titrimetric

#### Direct Reading Titrators

Calibrated for direct readout in concentration.

#### Drop Count or Dropper Bottle

The number of drops used to reach the endpoint is multiplied by the appropriate conversion factor.



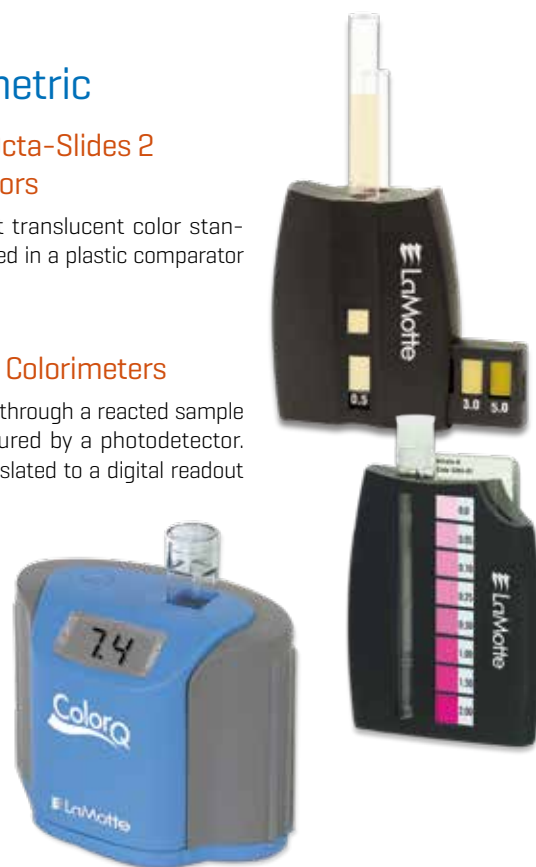
### Colorimetric

#### LRC and Octa-Slides 2 Comparators

Provide eight translucent color standards mounted in a plastic comparator block or slide.

#### Electronic Colorimeters

Light passes through a reacted sample and is measured by a photodetector. Result is translated to a digital readout in ppm.



# Insta-Test® Test Strips

**New!**



Code 2992



## Single Factor Test Strips

Test Factor	Code	Range [ppm]	Values [ppm]	# of Tests Per Factor/ Per Vial
Alkalinity	2997	0-180	0, 40, 80, 120, 180	50
Chlorine, Free, Low Range	2964-G	0-10	0, 0.5, 1, 3, 5, 10	25
Chlorine, Total, Low Range	2963LR-G	0-10	0, 0.1, 0.25, 0.5, 1, 3, 10	25
Chlorine, Free, High Range	3031	0-800	0, 50, 100, 250, 500, 800	50
Chlorine, Total	2979	0-5	0, 0.5, 1, 3, 5	50
Hardness, Low Range	2981	0-180	0, 30, 60, 120, 180	50
Iron <b>New!</b>	2935-G	0-5	0, 0.3, 0.5, 1, 3, 5	25
pH, Wide Range	2974	4-10 [pH]	4, 5, 6, 7, 8, 9, 10	50
Peracetic Acid	3000	0-160	0, 10, 20, 40, 60, 85, 160	50
Peracetic Acid, High Range	3000HR	0-1,000	0, 50, 100, 250, 500, 1000	50
Peroxide	2984	0-90	0, 15, 30, 50, 90	25
Peroxide, Low Range	2984LR	0-50	0, 1, 3, 10, 30, 50	25

For QUICK & EASY  
water quality profiles!

## Multi-Factor Test Strips

Test Factor	Code	Range [ppm]	Values [ppm]	# of Tests Per Factor/ Per Vial
Chlorine [Free & Total]	3027-G	0-10 [FCI & TCI]	0, 0.5, 1, 3, 5, 10	25
Drinking Water 6-Way	2933-G	0-10 [FCI]	0, 0.5, 1, 3, 5, 10	25
		0-10 [TCI]	0, 0.5, 1, 3, 5, 10	25
		4-10 [pH]	4, 5, 6, 7, 8, 9, 10	25
		0-400 [Hard]	0, 50, 100, 200, 400	25
		0-50 [Nitrate]	0, 5, 10, 25, 50 [NO <sub>3</sub> -N]	25
		0-10 [Nitrite]	0, 0.5, 1, 5, 10 [NO <sub>2</sub> -N]	25
Iron & Copper	2994	0-5 [Iron]	0, 0.3, 0.5, 1, 3, 5	25
		0-3 [Copper]	0, 0.3, 0.6, 1, 3	25
Iron, pH, Hardness, & Total Chlorine <b>New!</b>	2992	0-5 [Iron]	0, 0.3, 0.5, 1, 3, 5	25
		4-10 [pH]	4, 5, 6, 7, 8, 9, 10	25
		0-400 [Hard]	0, 50, 100, 200, 400	25
		0-10 [TCI]	0, 0.5, 1, 3, 5, 10	25
Wide Range [pH & Total Chlorine]	2987-G	4-10 [pH]	4, 5, 6, 7, 8, 9, 10	25
		0-50 [TCI]	0, 1, 5, 10, 20, 50	25
Nitrate & Nitrite	2996	0-50 [Nitrate]	0, 5, 10, 25, 50 [NO <sub>3</sub> -N]	50
		0-10 [Nitrite]	0, 0.5, 1, 5, 10 [NO <sub>2</sub> -N]	50



Code 2987



Code 2996

**New!**

## Packaged Drinking Water Test Strips

Test Factor	Code	Range [ppm]	Values [ppm]
Drinking Water 5-Way <b>New!</b>	4-2936FP-100	0-10 [FCI]	0, 0.5, 1, 3, 5, 10
		0-10 [TCI]	0, 0.5, 1, 3, 5, 10
		0-400 [Hard]	0, 50, 100, 200, 400
		4-10 [pH]	0, 3, 5.8, 11.7, 23 [gpg]
		0-50 [Nitrate]	0, 5, 10, 25, 50 [NO <sub>3</sub> -N]

Two Test Strips per Bag  
100 Bags per Case



For additional Test Strips, please visit [www.lamotte.com](http://www.lamotte.com) or call customer service for details.



# Water Quality Demo Outfits

## Demonstration Water Softeners

Generate high-quality softened water in seconds. Clear acrylic column is durable and visually impressive. Flexible intake and outlet hoses have plastic clamps that prevent spillage. Rubber adapter on intake hose attaches to faucet. Available in four different models to suit your demonstration needs.



Now with  
Quick Connect  
Couplings!

Refills Available!

### DuoSoft

**Order Code: 1022-FLD**  
**Carbon and Resin Refill Code: R-1022**

The LaMotte twin-chambered softener clearly demonstrates the advantages of advanced two-part treatment systems. Customize one today to demonstrate the true effectiveness of your treatment system.

Also available: Order Code **1022** DuoSoft unit empty to fill with your choice of media.

- Treat tapwater in one pass with a two-chambered softener
- Filter screen divider prevents bleeding of media between beds
- Two 4" columns (10.25" total height)
- A filled Duo-Soft is furnished in the Model AT-40 and AT-Q-40 outfit



### Model S

**Order Code" 1002**  
**Resin Refill Code: R-1002**

An 8" resin column (10.25" total height) that softens up to 70 gallons of medium hard water (7 gpg hardness) before requiring regeneration or fresh resin. Model S softener is furnished in the Model AT-38 and AT-Q-38 outfits.



### DirectFlo DuoSoft

**Order Code: 1028**  
**Carbon and Resin Refill Code: R-1022**

- Unique gravity fed design works with any size faucet, eliminating messy hoses!
- Effectively combines two water treatments in one pass
- Twin 4" chambers (10.25" total height) with carbon in the top chamber and resin in the bottom chamber
- Designed to ensure only water coming out the side outlet has received both treatments.



### DirectFlo Softener

**Code 1026**  
**Resin Refill Code: R-1002**

- Unique gravity fed design works with any size faucet, eliminating messy hoses!
- 8" resin column (10.25" total height) softens up to 70 gallons of hard water (7 gpg) before regeneration
- Designed to ensure only treated water comes out of the side outlet.

## Optional DUAL RANGE TDS Waterproof PockeTester

**TDS 11 • Code 5-0080**

The TDS Dual Range PockeTester reads Total Dissolved Solids in 10 ppm increments up to 1,990 ppm. The unit switches automatically to precisely measure Total Dissolved Solids in 100 ppm increments up to 10,000 ppm (10.00 ppt). The units feature push-button calibration and automatic temperature compensation.



# Water Quality Demo Outfits

LaMotte Model AT-Q and AT Visual series outfits are the most popular and effective sales tools for on-site demonstrations. The tests clearly demonstrate the benefits between untreated and treated water.

## AT-Q Digital Series

Featuring the ColorQ DW digital colorimeter

- New digital versions
- New rugged case with locks
- Fast & simple tests
- More custom options
- Competitive pricing



Includes  
Diagrammed  
Quick-Start  
Guide!

Customize Your Water Quality  
Sales Demonstrations.

Choose the Softener that  
Meets Your Needs!



AT-Q with Model S  
Code 4-3051-01



AT-Q with DuoSoft  
Code 4-3055-01



AT-Q with DirectFlo  
Code 4-3071-01



AT-Q with DirectFlo  
DuoSoft  
Code 4-3075-01

## AT-Q Digital Kit Tests [9 Included]

	Hardness	pH	Iron	Nitrate	Chlorine Free & Total	Sulfide	Precipitation	Soap Consumption
Range	1-41 gpg*	5-9	0-3.0 ppm*	0-25	0-10 ppm	0-3.0 ppm*	Before/After	Before/After
Resolution	1 gpg	0.5 pH	0.5	1 ppm	0.2 ppm	0.2 ppm	—	
Number of Tests	140	70	50	50	50	120	100	100

\* Higher Concentrations by dilution; instructions included.

## AT Visual Series



Includes  
Diagrammed  
Quick-Start  
Guide!



AT with Model S  
Code 4-3003-02



AT with DuoSoft  
Code 4-3015-01



AT with DirectFlo  
Code 4-3010-01



AT with DirectFlo  
DuoSoft  
Code 4-3018-01

## AT Visual Kit Tests [5 Included]

	Hardness	pH	Iron	Precipitation	Soap Consumption
Range	1 drop = 10 ppm/ 20 ppm/10 gpg	5.0-10 ppm	0.5-10 ppm*	Before/After	Before/After
Number of Tests	100	100	100	100	100

\* Higher Concentrations by dilution; instructions included.

## Optional Add-On Kits and TDS Meter:

- Chlorine [0.2-3.0 ppm] · 50 Tests  
Code **4-3006-01**
- Nitrate [0-15 ppm] · 50 Tests  
Code **4-3004-01**
- TDS Meter · Code **5-0080** (see page 4)

# Multi-Parameter Outfits

## Digital Outfit ColorQ DW



Code 2059-01

## Digital Outfit ColorQ DW

ColorQ DW Code 2059-01 • Shipping Code [weight/lbs.]: R1 [4]  
Reagent Refill • R-2059-01 • Shipping Code [weight/lbs.]: R1 [2]

	Hardness	pH	Iron	Nitrate	Chlorine Free & Total	Sulfide
Range	1-41 gpg*	5-9	0-3.0 ppm*	0-25	0-10 ppm	0-3.0 ppm*
Resolution	1 gpg	0.5 pH	0.5 ppm	1 ppm	0.2 ppm	0.2 ppm
Number of Tests	140	70	50	50	50	120

\* Higher Concentrations by dilution; instructions included.

## Visual Kits

Model AR outfits offer the simplest, most economical way to measure water quality factors in the field. Drop Count and Octa-Slide tests can be reliably performed by non-technical personnel. Ideal for service applications. Units easily customized upon request.



Code 3590-03

Need guidance on product selection?  
Contact our technical support staff at 800-344-3100 or [tech@lamotte.com](mailto:tech@lamotte.com)

## Visual Kits

Code 4783-03 • Shipping Code [weight/lbs.]: R1 [7]  
Reagent Refill • R-4783-02

Popular AR-02 outfit provides tests for Hardness, Iron, and pH. Drop Count test for Hardness (10 ppm or 1 gpg/drop). Octa-Slide tests for Iron (0.5-10 ppm) and pH (5.0-10). Includes 100 tests for Iron and 50 tests each for pH and Hardness.

Code 3590-03 • Shipping Code [weight/lbs.]: R1 [7]  
Reagent Refill • R-3590-01

The Model AR-42 has the same test range for pH, Hardness, and Iron as the AR-02, but it also is equipped to test for Sulfide (0.2-20 ppm). Includes 50 tests for pH, Hardness, and Sulfide; 100 for Iron.

Ship Codes: [NH] Non-Hazardous Material - No Fees • [R1] Small Qty. Hazardous Material - No Fees • [R2, R3, & LQ] Hazardous Material - Air Fees Only • [HF] Hazardous Material - Air & Ground Fees



# Individual Test Kits



Code 7240-02

Specific to your treatment and monitoring needs. Each individual kit is furnished in a compact carrying case with all labware, accessories, and reagents needed to perform the test. Step-by-step instructions included.

A Reagent Refill Package may be ordered by prefixing "R-" to the code number of the kit.

**Convenient REAGENT REFILLS!**  
When ordering, place "R-"  
before the kit code

Code	Test Method	Range/Sensitivity	# Tests	Shipping Codes (weight/lbs.)
<b>Alkalinity</b>	Kits use titrations with standard acid to the phenolphthalein (P) and/or total (T) alkalinity endpoint.			
7240-02	Dropper Bottle for P&T Alkalinity	1 drop = 10, 25, or 50 ppm as CaCO <sub>3</sub>	100 at 500 ppm	R1 [2]
4491-DR-01	Direct Reading for Total Alkalinity	0-200 ppm as CaCO <sub>3</sub> in 4 ppm increments	50 at 200 ppm	NH [1]
3467-01*	Direct Reading Titrator for P&T Alkalinity	0-200 ppm as CaCO <sub>3</sub> in 4 ppm increments	50 at 200 ppm	R1 [1]
<b>Aluminum</b>	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, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4, 0.5 ppm Al <sup>3+</sup>	50	NH [1]
<b>Arsenic</b>	The procedure detects inorganic As <sup>+3</sup> and As <sup>+5</sup> by converting these to arsine gas, which produces a yellow to brown color on the test strip. The strip is then compared to color standards to determine the arsenic concentration.			
4053-02	Colorimetric/Test Strips	<4, 4, 8, 10, 12, 14, 16, 20, 25, 30, 50, 85, 100, 150, 175, 200, 300, 400 ppb	50	R1 [8]
<b>Bacteria</b>	LaMotte offers the BART™ (Biological Activity Reaction Tests) line of kits for various microbiological analyses. Results are obtained by observation after 2-8 days of room temperature incubation. Please contact us for more information. (see also coliform) Note: For <b>Coliform</b> and <b>E. coli</b> bacteria see page 8 and 9.			
5-0024	Iron Related Bacteria (IRB)	Semi Quantitative	9	NH [1]
5-0026	Slime Forming Bacteria (SLYM)†	Semi Quantitative	9	NH [1]
5-0025	Sulfate Reducing Bacteria (SRB)	Semi Quantitative	9	NH [1]
5-0032	Combo Pack (Iron, Sulfate Reducing, Slime Forming)†		3 each	NH [1]
<b>Chloride</b>	The argentometric method employs a chromate indicator and silver nitrate titrant. Hydrogen peroxide is included to eliminate sulfite interference.			
7172-02	Dropper Bottle	1 drop = 10, 25, 50 ppm	120 at 10 ppm	R1 [1]

\* EPA Accepted for NPDWR

† Requires use of UV lamp [order code 5-0033]

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

# Individual Test Kits



Code 3347-01

Code	Test Method	Range/Sensitivity	# Tests	Shipping Codes [weight/lbs.]
<b>Chlorine</b> 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, although the FAS titration can test higher concentrations with the addition of more DPD indicator.				
3308-01*	Octa-Slide 2 Comparator for Free & Total	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm Cl	50	NH [1]
3312-01*	Octa-Slide 2 Comparator for Free & Total	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 ppm Cl	50	NH [1]
3314-01*	Octa-Slide 2 Comparator for Free & Total	Low: 0.1-1.0 ppm Cl high: 1.0-6.0 ppm Cl	100	NH [1]
3176-02*	Direct Reading Titrator for Free & Total	0-10 ppm Cl in 0.2 ppm increments	50 at 10 ppm	R1 [2]
3240*	Digital Colorimeter	0-4.0 ppm Cl/0.03 ppm, DPD Tablets	100	NH [4]
3240-LI	Digital Colorimeter	0-4.0 ppm Cl/0.03 ppm, DPD Liquid	100	R1 [5]
<b>Chlorine Bleach</b> Higher concentrations of chlorine require the iodometric titration, whereby the sample is acidified and iodide is added, which is oxidized by chlorine to iodine and is titrated with a standard thiosulfate solution.				
7894-01	Dropper Pipet	1 drop = 0.005%, 0.05%, 0.5% Cl	50 at 10%	R1 [1]
<b>Coliform</b> Kit 4-3616 uses five tubes, each containing a nutrient tablet. Reacted tubes are stored at room temperature for 48 hours and examined for color change and gas formation. Kit 3-0016-UV has a MUG reagent to make the <i>E. coli</i> bacteria floresce.				
4-3616	Total Coliform [LaMotte]	Presence/Absence	1	NH [1]
4-3616-UV	Total Coliform and <i>E. coli</i> bacteria	Presence/Absence	1	NH [1]
3-0041	Total Coliform and <i>E. coli</i> bacteria		20	NH [3]
<b>Copper</b> A yellow color is formed when copper reacts with diethyldithiocarbamate (DDC)				
6616-01	LRC Comparator	0.0, 0.05, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5 ppm Cu, 0-5.0 with dilution	50	NH[1]
<b>Hardness</b> EDTA titration is used for all hardness determinations with a red to blue endpoint. Total hardness buffers include inhibitors to eliminate metal interferences. All results are as CaCO <sub>3</sub> ; some kits also express results as gpg. The -LT suffix indicates a liquid buffer and tablet indicator.				
4482-LI-02	Dropper Bottle for Total Hardness [all liquids]	1 drop = 10 ppm or 1 gpg as CaCO <sub>3</sub>	50 at 200 ppm or 20 gpg	R1 [1]
4482-LT-02*	Dropper Bottle for Total Hardness [liquids and tablets]	1 drop = 10 ppm or 1 gpg as CaCO <sub>3</sub>	50 at 200 ppm or 20 gpg	R1 [1]
3037-DR-01*	Direct Reading Titrator for low range Total Hardness	0-10 ppm as CaCO <sub>3</sub> in 0.2 ppm increments	50 at 10 ppm	R1 [1]
<b>Iron</b> 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 using Kit 3347-01				
4447-01	Octa-Slide 2 Comparator for Total Iron	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe	90	R1 [1]
7787-01	LRC Comparator for Total Iron	0.05, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0 ppm Fe	30	R1 [1]
3347-01*	Octa-Slide 2 Comparator for Total, Ferrous and Ferric Iron	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe	50	R1 [1]

\* EPA Accepted for NPDR

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Direct Reading Titrators have a specific range, but may be refilled to test higher concentrations.



# Individual Test Kits

Code	Test Method	Range/Sensitivity	# Tests	Shipping Codes (weight/lbs.)
<b>Manganese</b>	The 1-[2-pyridylazo]-2-naphthol(PAN) method forms an orange complex with manganese.			
3588-02	Octet Comparator	0.0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.0 ppm Mn	50	LQ [2]
<b>Nitrate Nitrogen</b>	The nitrate is reduced to nitrite by zinc and this undergoes diazotization/coupling to form a pink color. [see also nitrate test strips, page 3]			
3354-01	Octa-Slide	0, 1, 2, 4, 6, 8, 10, 15 ppm NO <sub>3</sub> -N	50	NH [2]
<b>pH</b>	Indicators specific to a particular pH allow colorimetric determination. [see also pH meters, pages 10-11]			
3353-01	Octa-Slide 2 Comparator	5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0 pH	50	R1 [1]
5858-01	Octa-Slide 2 Comparators	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	100	R1 [1]
<b>Sulfate</b>	Barium forms a precipitate with sulfate. The turbidity from the precipitate is measured using a comparator.			
7778-01	Octa-Slide 2 Comparator	20, 40, 60, 80, 100, 120, 160, 200 ppm SO <sub>4</sub> <sup>2-</sup>	50	R1 [1]
<b>Sulfide</b>	Uses the Pomeroy methylene blue method for analysis. [see also sulfide test on ColorQ, page 6]			
4456-01	Octa-Slide 2 Comparator for Total Sulfide	0.2, 0.5, 1.0, 2.0, 5.0, 10.0, 15.0, 20.0 ppm S=	50	R1 [1]
4630	Total, Dissolved and Hydrogen Sulfide	1 drop = 1.0 ppm or 0.1 ppm S <sup>2-</sup> or H <sub>2</sub> S	70	LQ [10]
<b>Tannin</b>	Tungstophosphoric and molybdophosphoric acids are reduced by tannins to form a blue color.			
7831-01	Octa-Slide 2 Comparator	1, 2, 3, 4, 5, 6, 8, 10 ppm tannic acid	50	R1 [1]

\* EPA Accepted for NPDWR

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

## Total Coliform & *E. coli* Bacteria Test

Order Code 4-3616-UV · Shipping Code (weight/lbs.): NH [1]

A simple **5-tube** method to indicate the presence or absence of Total Coliform & *E. coli* Bacteria in drinking water. *E. coli* produces fluorescent compound.

- Presumptive test for Total Coliform & *E. coli* Bacteria
- NO incubation equipment required
- Results in 44-48 hours at room temperature (70° - 85°F) or 24-hours at 110°F
- UV light source included (365 nm)
- Portable, no accessory labware required
- Ideal test for well water and coliform breakthrough in distribution systems
- Independent laboratory tested (results available upon request)



Code 4-3616-UV



Code 3-0041

## Coliscan MF10<sup>+</sup>

Order Code 3-0041 · Shipping Code (weight/lbs.): NH [3]

Refill Package Order Code 3-0042 · Shipping Code (weight/lbs.): NH [3]

Ideal for large quantities of potable water or treated wastewater that contains a low level of coliforms or *E. coli*. Up to 100 mL of water is filtered through a membrane filter and placed on a Coliscan-MF nutrient rich pad in a Petri dish. 20 tests. Refill package contains enough materials to do 20 tests (refill does not include membrane filtration apparatus). Five color charts included.

† Frozen products/dated goods. Please specify ship date.

# Instrumentation

## Pocketesters

Ideal for almost any water analysis application. The WATERPROOF PockeTesters float and can be intermittently submerged to a depth of 3 feet. The waterproof feature makes cleanup easy since the whole unit can be rinsed. Replacement electrodes help reduce long term costs. Double junction meters are ideal for testing pH in strong acids, solvents, or other harsh applications.

Model	pH 10	pH 20	TDS Dual Range
Code:	5-0103	5-0104	5-0080
Range:	-1.0 to 15.0 pH extended range		0 to 1,990 ppm and 0 to 10.00 ppt
Resolution:	0.1	0.01	10 ppm 0.10 ppt (100 ppm)
Accuracy:	±0.1	±0.01	±2%FS
Calibration:	Select up to 3 points (4.0, 7.0, or 10.0)		Against appropriate calibrating solutions
Single Point Operating Temperature:	32 to 122°F; 0 to 50°C		
Temperature Compensation:	Automatic (ATC) 0 to 50°C		
Special Functions:	On/Off or Auto-Off after 8.5 min.; HOLD; CALibrate		Full reading displayed
Power & Battery Life:	Four 1.5V batteries (supplied); 100 hrs. continuous use (±720 tests per battery); Eveready A76BP or equivalent for replacement.		
Replacement Electrode:	5-0097		5-0084

Easy to operate  
& calibrate



## Digital Turbidity Meter

2020we [EPA Compliant]

Model 2020we • Code 1970-EPA

2 YEAR  
WARRANTY

CE

IP67  
WATERPROOF

Industry-leading precision, sensitivity, and dependability in one of the most innovative handheld meters available on the market!

Specifications	
Unit of Measure	2020we NTU, AU, ASBC, EBC
Units of Measure	2020wi FNU, FAU, ASBC, EBC
Range*	0-4000 NTU/FNU, 0-10,500 ASBC, 0-150 EBC
Resolution*	0.01 NTU/FNU 0.00-10.99, 0.1 NTU/FNU 11.0-109.9, 1 NTU/FNU 110-4000
Accuracy*	From 0-2.5 NTU the accuracy is ±0.05 NTU. From 2.5-100 NTU the accuracy is ±2%, Above 100 NTU the accuracy is ±3%.
Detection Limit	0.05 NTU/FNU
Range Selection	Automatic
Reproducibility*	0.02 NTU/FNU or 1%
Light Source	Tungsten [EPA], complies with EPA 180.1 standard

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



### Advanced Features:

- Waterproof to IP67
- Lithium Ion rechargeable battery
- USB port
- 7 languages
- Backlit display
- EPA and ISO versions
- European CE mark

## LaMotte TRACER Meters

- Readings are not affected by sample color or turbidity
- Extra bold display includes an analog bar graph feature
- Memory can store up to 15 readings
- Meters also display sample temperature
- Unit identifies which probe is in use and retains calibrations
- Waterproof design
- Automatic shut-off and Low Battery indicator; uses four LR-44 batteries
- Note: Fluoride Tracer uses Code 7024-J Tablets

Model	pH	ORP	Fluoride
Code	1741	1742	1756
Range [Accuracy]	pH: 0-14 [±0.01]	ORP: ±999mV [±4mV]	Fluoride: 0.1 to 10 ppm [±3% rdg]      Temp: 0°-60°C/32°-140°F [±1°C/1.8°F]

Model	EC/TDS/Salt/Temp			
Code	1749			
Range [Accuracy]	Conductivity: 0-199.9 mS; 200-1999 mS; 2.00-19.99 mS [±2% FS]	TDS: 0-99 ppm; 100-999 ppm; 1000-9999 ppm [±2% FS]	Salinity: 0-99 ppm S; 100-999 ppm S; 1000-9999 ppm S [±2% FS]	Temp: -5°-90°C [±1°C/1.8°F]

Model	pH/TDS/Salt/CON/Temp				
Code	1766				
Range [Accuracy]	pH: 0-14 [±0.01]	Conductivity: 0-199.9 mS; 200-1999 mS; 2.00-19.99 mS [±2% FS]	TDS: 0-99 ppm; 100-999 ppm; 1000-9999 ppm [±2% FS]	Salinity: 0-99 ppm S; 100-999 ppm S; 1000-9999 ppm S [±2% FS]	Temp: -5°-90°C [±1°C/1.8°F]



## LaMotte Series Meters

An outstanding lineup of instruments for measuring pH, Conductivity, and TDS. These handheld meters incorporate advanced microprocessor technology with attractive, compact designs resulting in a rare combination of hi-tech performance, user-friendly operation, and affordability.

MODEL	pH5 +	CON6 + Meter	TDS6 + Meter
	[pH]	[Conductivity]	[TDS]
Order Code:	w/out case 5-0034-01; with case 5-0035-01	w/out case 5-0038-02; w/case 5-0039-02	w/out case 5-0036-02; w/case 5-0037-02
Range:	0.00 - 14.00 pH	0.0 to 199.9 µS; 200 to 1999 µS; 2.00 to 19.99 mS	0.0 to 99.9 ppm; 100 to 999 ppm; 1.00 to 9.99 ppt
Resolution:	0.01 pH	0.1 µS, 1µS, 0.01mS	0.1 ppm, 1 ppm, 0.01 ppt
Accuracy:	±0.01 pH	±2% full scale	±2% full scale
Calibration:	Up to 3 Buffer Values; [pH 4.01, 7.00, 10.0] 1 to 3 points (push button; 1 point per range)		
Temperature	0°C to 100°C; 0.1°C resolution		
Temperature Compensation:	Automatic Temperature Compensation (ATC)		
Power:	4 AAA alkaline batteries [supplied] >70 hours continuous use		
Auto shut-off:	After 17 minutes		



# SMART®3 Colorimeter

## Code 1910

The user-friendly SMART®3 Colorimeter is the ideal direct reading colorimeter for complete on-site water analyses. All pre-programmed tests can be run on this compact instrument 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.

### 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
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
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



### Additional advancements include:

- USB interface
- Optional software for data storage and manipulation
- Lithium ion rechargeable battery, USB computer adapter is included
- USB port

### Accessories/replacement items:

- COD/UDV adapter, Code 1724
- 6 sample tubes, Code 0290-6
- USB Cable, Code 1720
- USB Power Plug, Code 1721
- Car Charger, Code 5-0132



## Reagent Systems Ordered Separately - [www.lamotte.com](http://www.lamotte.com) - Call for Information

Alkalinity UDV	10-250	Chromium [Total, Hex & Trivalent]	0.01-1.00	Hydrazine	0.01-1.00	Ozone	0.03-3.00
Aluminum	0.01-0.30	Cobalt	0.04-2.00	Hydrogen Peroxide LR	0.02-1.50	Ozone LR	0.01-0.40
Ammonia Nitrogen LR, Fresh	0.05-1.00	COD LR w/ Mercury*	5-150 mg/L	Hydrogen Peroxide HR	1-60	Ozone HR	0.05-2.50
Ammonia Nitrogen LR, Salt	0.10-1.00	COD LR w/o Mercury*	5-150 mg/L	Hydrogen Peroxide Shock	10-225	pH, CPR	5.0-6.8 pH
Ammonia Nitrogen HR	0.05-4.00	COD SR w/ Mercury*	50-1,500 mg/L	Hydroquinone	0.01-2.00	pH, PR	6.6-8.4 pH
Barium	5-200	COD SR w/o Mercury*	50-1,500 mg/L	Iodine	0.2-14.0	pH, TB	8.0-9.5 pH
Benzotriazole**	0.5-30.0	COD HR w/ Mercury*	500-15,000 mg/L	Iron	0.10-6.00	Phenol	0.05-6.00
Biguanide	2-70	COD HR w/o Mercury*	500-15,000 mg/L	Iron UDV	0.1-10.0	Phosphate LR	0.05-3.00
Borate UDV	5-80	Color	20-1,000	Iron, Phenanthroline	0.1-5.0	Phosphate HR	0.5-70.0
Boron	0.05-0.80	Copper, BCA	0.04-3.50	Lead	0.1-5.0	Phosphate, ppb	50-3000 ppb
Bromine LR	0.10-9.00	Copper, Cuprizone	0.03-2.00	Manganese LR	0.01-0.70	Phosphorus, Total - LR*	0.50-3.50 mg/L
Bromine UDV	0.1-22.0	Copper, DDC	0.10-6.00	Manganese HR	0.3-15.0	Phosphorus, Total - HR*	5-100 mg/L
Cadmium	0.02-1.00	Copper UDV	0.1-4.0	Mercury	0.01-1.50	Potassium	0.8-10.0
Carbohydrazide	0.04-0.900	Cyanide	0.03-0.35	Methylethylketoxime	0.01-3.00	Silica LR	0.05-4.00
Chloride TesTab	0.4-30.0	Cyanuric Acid	10-200	Molybdenum HR	0.6-50.0	Silica HR	1-75
Chlorine [Free & Total]	0.03-4.00	Cyanuric Acid UDV	10-150	Nickel	0.15-8.00	Sulfate HR	3-100
Chlorine - Free UDV	0.10-10.00	DEHA	0.01-0.70	Nitrate Nitrogen LR	0.10-3.00	Sulfide LR	0.06-1.50
Chlorine - Liquid DPD	0.03-4.00	Dissolved Oxygen [DO]	0.6-11.0	Nitrate TesTabs	5-60	Surfactants	0.5-8.0
Chlorine - Total UDV	0.10-10.00	Erythorbic Acid	0.02-3.00	Nitrate UDV	2-80	Tannin	0.1-10.0
Chlorine Dioxide	0.06-8.00	Fluoride	0.1-2.0	Nitrite Nitrogen LR	0.02-0.80	Turbidity	3-400 FAU
Chromium Hexavalent	0.01-1.00	Hardness [Total] UDV	10-500	Nitrogen, Total*	3-25 mg/L	Zinc LR	0.05-3.00
				Oxygen Scavengers	various		



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