

Case-In-Point

Advertorial

A meter that tests Lead in water, soil and paint

The science behind the eXact® LEADQuick™ Colorimeter uses lead in the water sample first solubilized to Pb+2 by the addition of a Nitric Acid reagent. A buffer is then added to make the solution alkali. The eXact® Strip Pb-3 is dipped for 20 seconds with gentle motion, which adds the porphyrin indicator and mixes the solution. After a one minute wait, which allows for the porphyrin and Pb+2 to form a colorimetric complex, the eXact® LEADQuick™ Colorimeter automatically zeros the total absorbance developed. The eXact® Strip Pb-4 is dipped into the cell sample for twenty seconds with gentle motion. This motion releases EDTA into the sample which then breaks up the colorimetric porphyrin-Pb2+ complex. After a one minute wait, the result is displayed in µg (µg/L) as Lead which is determined by an algorithm programmed in the meter. The higher the drop of the absorbance (abs) value, the higher the lead level present in the sample. The system can also be used for Mercury and Cadmium. For specifications of the eXact® LEADQuick™ Colorimeter see the chart.

The eXact® LEADQuick™ Colorimeter is fast, non-technical, and has expanded applications for soil and lead paint testing. Its principal applications include:

Water: On-site reliable testing of Lead in drinking water to confirm water contains less than USEPA MCL (Maximum Containment Level) 15 µg/L.



ONLY FOUR REAGENTS REQUIRED



Soil: On-site, reliable Lead screening of soil samples to confirm soil is below USEPA 400 and 1000 mg/kg levels.

Paint: On-site reliable Lead screening of paint samples to confirm lead in paint is below USEPA allowable 1.0 mg/cm2.

The eXact® LEADQuick™ Colorimeter is especially useful for:
Lead Water Testing: USEPA and Congress continue to classify lead as a substance hazardous to the public health, and especially detrimental to normal childhood development. Widespread use of this simple, but accurate, field test method will quickly and accurately determine public exposure to toxic lead.

Lead Paint Testing: Congressional regulation requires new rules for contractors performing work that disturbs any paint in homes, child care facilities, and schools built before 1978 must:

- Be EPA certified, and follow specific work practices to prevent lead contamination.
- Determine if Lead levels require compliance with these new rules.

This product has completed the ETV program for Lead determination in Paint; and results will be released soon.

eXact® LEADQuick™
A Meter that tests Lead in Water, Soil and Paint

eXact® LEADQuick™ Specifications

Menu	Tests for	Range	Resolution	+/- Accuracy	Limit*
PA1	Diluted Homogenized Paint Lead	.000 to 1.99	.001	.003 or 6%	—
PB2	Lead in Water (auto-zero)	1 - 500 µg/L	1 µg/L	3 µg/L or 6%	3 µg/L
HG3	Mercury in Water (auto-zero)	10 - 600 µg/L	1 µg/L	6 µg/L or 6%	10 µg/L
CD4	Cadmium in Water (auto-zero)	0.01 - 0.80 mg/L	.01 mg/L	.06 mg/L or 6%	.02 mg/L
PB2	Modified Test for Lead in Soil	18 - 3000 mg/kg 200 - 300,000	1 mg/kg 200	+ - 25% + - 40%	18 mg/kg 200 mg/kg
PB2	Lead extracted from Ceramic	1 - 500 µg/L	1 µg/L	3 µg/L or 6%	3 µg/L

*Limit is defined as the minimum reliable detection for that test. Any value below the limit should be considered inconclusive for that metal's presence.

eXact® LEADQuick™

The new eXact® LEADQuick™ Advanced Photometer from Industrial Test Systems, Inc. (ITS) is the perfect meter for all your water quality testing needs. No visual color matching required means the eXact® LEADQuick™ takes the guesswork out of water testing.

- **Direct read parameters:** Lead in Paint, Lead in Water, Lead in Soil, Mercury in Water, and Cadmium in Water.
- **Easy-to-use eXact® Strip/Photometer reagent delivery system** (US Patent #7,333,194) delivers reagents safely without the need to count drops or crush tablets
- **0.01 ppm (mg/L) precision** with no visual color matching required
- **Waterproof meter (IP-67) and it floats**
- **2-Year warranty with satisfaction guarantee**
- **Automatic test timer & 120 test memory** (saves last 20 tests per menu)
- **Autocalibrated meter**
- **No-slip grip housing and simple 3-button control**
- **Lightweight (weighs only 6 oz with batteries installed)**
- **Environmentally friendly (recyclable parts and uses 60% less reagents than 10mL sample tests)**
- **Private labeling and menu customization available**

**WATERPROOF
(IP-67)**



TECHNICAL SPECIFICATIONS:

Measurement Method:	Photometric Light Source: Light Emitting Diode (LED)
Wavelength:	476 nm
Memory:	20 tests per menu; 120 total
Programmed Tests:	Lead in Paint, Lead in Water, Lead in Soil, Mercury in Water, and Cadmium in Water
Photometric Precision:	.001
Display:	3-digit customized liquid crystal display with annunciators
Cell Pathlength:	20mm
Cell Chamber:	Custom-molded, proprietary, PET plastic fused into chamber, non-removable
Sample Required:	4 mL (0.13 oz)
Reagent System:	Utilizes patented eXact® Strip Micro reagent delivery system
Operating Temperature Range:	0 - 50°C (32° - 122°F)
Power Supply:	(4) AAA alkaline batteries
Battery Life:	>2000 tests with alkaline batteries
Electromagnetic Compliance (EMC):	Emitted Interference - EN 61326; Immunity to Interference - EN 61326
Waterproof Rating:	Exceeds IP67
Instrument Weight:	140 g (5 oz)
Instrument Dimensions:	5 (W) x 3.5 (D) x 16.5 (H) cm; (2 x 1.4 x 6.375 in)
Government Compliance:	European CE Mark

For more information about this and our complete line of test strips, reagent and water quality testing devices, please call or email as listed below.



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