

Taylor's Test Kits for Commercial and Institutional Laundries

INTRODUCTION

For testing water hardness, bleach strength, sour rinse pH, and more, Taylor Technologies has what you need. With the accurate results obtained using our products, problems in water quality can be identified easily, allowing for the necessary adjustments to be made. The final outcome—optimized laundry results, improved equipment efficiency, and a reduced impact on the environment.

Taylor manufactures two **combination kits** as well as several **single-analyte kits** to meet the needs of laundry operators. **Kits come complete with all necessary reagents and equipment.** If you do not see the product or test range you need in the selection below, please call Customer Service at 800-TEST KIT (837-8548). Custom labeling may be possible for your purchase; please inquire.

We offer a tiered discount schedule. If your annual purchases meet the established threshold, you can save substantially more at each successive tier.

Note: All hardness tests below include inhibitors to prevent metal interference. TTI® Colorimeter tests are addressed in a separate flier.

LAUNDRY WASHROOM COMBINATION KITS

K-1615

Alkalinity: drop test (using H_2SO_4);
1 drop = 10 or 50 ppm **P/T** alkalinity as $CaCO_3$

Chlorine (Bleach): drop test (iodometric);
1 drop = 0.05% or 0.5% **available** chlorine (Cl_2)

Hardness: drop test (EDTA titration);
1 drop = 10 ppm **total** hardness as $CaCO_3$

pH: color comparison with Color Card comparator (long range); 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0 pH units

K-1616

Alkalinity: drop test (using H_2SO_4);
1 drop = 100 ppm **active** alkalinity as Na_2O

Chlorine: visual determination (spot test using OT);
yellow color indicates presence of **total** chlorine

Chlorine (Bleach): drop test (iodometric);
1 drop = 0.05% or 0.5% **available** chlorine (Cl_2)



Combination kit K-1615 is an economical choice for laundry operators.

Hardness: drop test (EDTA titration);
1 drop = 1 gpg **total** hardness as $CaCO_3$

Iron: visual determination (spot test using tripyridyl-s-triazine); blue color indicates presence of **total** iron

pH: test paper;
1–14, 3–8, 9–12 pH units

SINGLE-ANALYTE KITS

ACIDITY

K-1548

Drop test (neutralization to pH 4.5) for **sulfuric acid**;
1 drop = 0.02–1.0 g/100 mL H_2SO_4 (plus conversion factors for phosphoric and sulfamic acids)

ALKALINITY

K-1512

Drop test (using H_2SO_4);
1 drop = 10 or 50 ppm **P/T** alkalinity as $CaCO_3$

K-1537

Drop test (using HCl);
1 drop = 10 or 50 ppm **hydroxyl** alkalinity as $CaCO_3$



the most trusted name in water testing

Taylor Technologies, Inc.
410-472-4340
800-TEST KIT (837-8548)
www.taylortechnologies.com

ISO 9001:2008 Certified

CHLORINE

K-1579

Drop test (iodometric) for **bleach**;
1 drop = 10 or 100 ppm/0.05% or 0.5% **available** chlorine (Cl_2)

6023

Chlorine test paper; 100 strips;
10, 50, 100, 200 ppm **total** chlorine

6034

Chlorine test paper; dispenser roll;
10, 50, 100, 200 ppm **free** chlorine



Purchasing other manufacturers' products from Taylor, such as these chlorine test papers, can boost your discount level.

HARDNESS

K-1505

Drop test (EDTA titration);
1 drop = 2 or 10 ppm **total** hardness as CaCO_3
(uses an odorless buffer)

K-1514

Drop test (EDTA titration);
1 drop = 2 or 10 ppm **calcium** or **total** hardness as CaCO_3

K-1567

Drop test (EDTA titration);
1 drop = 10 ppm **calcium** hardness as CaCO_3

HYDROGEN PEROXIDE

K-1443

Drop test (iodometric, undiluted strength);
1 drop = 0.5% or 1% H_2O_2

K-1825 (2 oz. bottles), K-1826 (.75 oz. bottles)

Drop test (iodometric);
1 drop = 5 ppm H_2O_2

IRON

K-1153

Color comparison with Slide comparator (using tripyridyl-s-triazine); 0, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0, 2.0 ppm Fe

K-1716

Color comparison with Midget comparator (using tripyridyl-s-triazine); 0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0 ppm Fe



K-1579: When you buy bleach in bulk, test to be sure you're getting the full strength.

ORTHOPHOSPHATE

K-1110

Color comparison with Slide comparator (using stannous chloride); 5, 10, 20, 30, 40, 50, 60, 80, 100 ppm PO_4

K-1831

Color comparison with 2-Standard comparator (using stannous chloride); 30 & 60 ppm PO_4

pH

K-1592

Color comparison with Color Card comparator (long range); 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0 pH units

6018

pH test paper; dispenser roll;
1–14 pH units

6255

pH test paper; colorpHast; 100 strips;
0–14 pH units

M-6556

Myron L ULTRAPEN PT2;
0–14 pH units (also measures temperature)

QAC/POLYQUATS

K-1582

Drop test (direct neutralization) for **high** QAC (quaternary ammonium compounds) and polyquat levels;
1 drop = 10 or 25 ppm QAC
1 drop = 3.5 or 9 ppm polyquat

TOTAL DISSOLVED SOLIDS

M-6540

Myron L Model 512T5 meter;
0–5000 ppm TDS as CaCO_3

M-6542

Myron L 512T5D meter;
0–5000 ppm TDS as CaCO₃ (also measures salinity)

M-6555

Myron L ULTRAPEN PT1;
1–10,000 ppm TDS as CaCO₃ (also measures salinity and temperature)

BOILER & COOLING SYSTEMS

We offer many choices for testing boiler and cooling waters, from single-analyte test kits to combination kits. The K-1645 is our most popular combination kit for small operators:

K-1645

Alkalinity: drop test (using H₂SO₄);
1 drop = 10 ppm **P/M** or **P/T** alkalinity as CaCO₃

Chloride: drop test (argentometric);
1 drop = 10 ppm Cl⁻

Hardness: drop test (EDTA titration);
1 drop = 10 ppm **total** hardness as CaCO₃

Orthophosphate: color comparison with 2-Standard comparator (using stannous chloride);
30 & 60 ppm PO₄

pH: color comparison with Color Card comparator (long range); 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0 pH units

Sulfite: drop test (iodometric) for **sodium sulfite**;
1 drop = 10 ppm Na₂SO₃

USER BENEFITS

- Titrations do not require the ability to match colors, only the ability to see the **permanent color change** at the end-point of the reaction. These drop tests are practical for both on- and off-site testing.
- Slide™ comparators (using nine liquid-color standards molded in impact-resistant plastic) are designed to compensate for color and turbidity in the sample. Midget™ comparators (using eight liquid-color standards) are the **economical alternative** when color and turbidity are not present.
- **Color Cards are laminated** to protect the printed-color standards from water and chemicals.
- Myron L electronic meters are **warranted by the manufacturer for two years** (pH sensor six months).
- **Waterproof instructions** are printed on plastic-impregnated paper that resists fading and tearing.
- **Color coding** of reagent caps to instructions helps prevent mishaps.
- **Picture guides** to color transitions in the test reassure new users.
- Custom-molded, durable plastic cases provide **safe storage** for all tests.

Their Product

Lot # xxxxx

Manufactured for:
Golden Rule
WATER TREATMENT

123 Main Street, Anywhere, State 12345 • 555-555-5555

P/M Alkalinity Test

1 drop = 10 or 50 ppm

taylor

Free custom labeling on test kits at no extra charge and with no minimum order! We'll put your company logo in full color on waterproof, smudge-resistant, white vinyl stock that won't peel off. A mockup is pictured above.

- **Proven chemistries** are based on *Standard Methods for the Examination of Water and Wastewater*, APHA, Washington, DC, and/or *American Society for Testing and Materials*, ASTM, Philadelphia, PA. Some methods use proprietary chemistry developed by Taylor Technologies.

ALSO AVAILABLE

- A wide array of single- and multiparameter kits featuring color-matching and/or drop-count tests.
- Taylor's TTI® Colorimeter (M-3000); test 30+ parameters commonly encountered in commercial and industrial settings and transfer results to a PC database.
- Myron L Company portable instruments and calibration solutions (sold separately).
- Testing supplies and kit replacement parts (e.g., burets, flasks, test tubes, and test cells).
- **Video demonstrations** for new users posted on our website.
- Toll-free technical assistance at **800-TEST KIT**.



The K-1645 Boiler & Cooling System combination kit is an economical choice for small operators.

REPRESENTATIVE TEST PROCEDURE

Reproduced from K-1616 instruction:

Instr. #5307pH

LAUNDRY WASHROOM KIT pH

COMPONENTS:
 1 x 5307pH Instruction
 1 x 6018 Test Paper, Dispenser Roll, pH, 1-14
 1 x 6030 Test Paper, Dispenser Roll, pH, 3-8
 1 x 6031 Test Paper, Dispenser Roll, pH, 9-12

**TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE
800-TEST KIT (800-837-8548).**

PROCEDURE:
**CAREFULLY READ AND FOLLOW PRECAUTIONS ON REAGENT LABELS.
KEEP REAGENTS AWAY FROM CHILDREN.**

pH Test:
 NOTE: The pH should be maintained at different levels during the separate stages of operation. In the sudsing operation the ideal pH will depend on both the kind of work and amount of soil—the heavier the soil the higher the recommended pH. As a general rule, the pH of the suds should be maintained between 10.0 and 11.5 for cotton and 9.5 to 10.0 for silk or wool. Use pH test paper 9-12 (#6031) for testing suds.
 During the rinse the pH should drop to the same level as the water supply. Use pH test paper 3-8 (#6030) to check the pH of the rinse water.
 Souring should be carefully controlled and the pH maintained at 5.0 in the extractor water. Slightly higher values are recommended for damp wash (5.5-6.0). Use pH test paper 3-8 (#6030) to check the pH of the extractor water.
 For general use, use pH test paper 1-14 (#6018).

1. Tear a 2-inch strip of pH paper off the roll.
2. Immerse in water to be tested.
3. Immediately match color with a color standard. Record as pH units.

NOTE: To check the pH of the fabric, wet the fabric and hold the pH paper to the material. Immediately match color. Record as pH units.

Finishing pH Spot Test

1. Dampen a spot on linen with water.
2. Hold pH paper 3-8 (#6030) to spot.
3. Match color immediately with a color standard. Record as pH units.



31 Loveton Circle, Sparks, MD 21152 USA
800-TEST KIT (837-8548) • 410-472-4340 080817

Instr. #5307G

LAUNDRY WASHROOM KIT ACTIVE ALKALINITY

COMPONENTS:
 1 x 5307G Instruction
 1 x 9198G Sample Tube, Graduated (25 mL) w/ cap & green dot, plastic
 1 x R-0638G-A Phenolphthalein Indicator, .75 oz w/ green cap, DB
 1 x R-0645-C Total Alkalinity Indicator, 2 oz, DB
 1 x R-0896-C Sulfuric Acid, 2 oz, DB

**TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE
800-TEST KIT (800-837-8548).**

PROCEDURE:
**CAREFULLY READ AND FOLLOW PRECAUTIONS ON REAGENT LABELS.
KEEP REAGENTS AWAY FROM CHILDREN.**

NOTE: When dispensing reagents from dropper bottles, **always** hold bottle in a vertical position.

Active Alkalinity Test
 NOTE: Two indicators, R-0638G Phenolphthalein Indicator and R-0645 Total Alkalinity Indicator are used to test for active and inactive alkali. The alkali which is detected using R-0638G Phenolphthalein Indicator is considered active alkali, and the rest is largely inactive in the washing process. However, it is important that the concentration of alkali present to give good cleaning not affect the suds bath. The total alkalinity value is important as a measure of the probable rinsing efficiency.

1. Rinse and fill 25 mL sample tube (#9198G) to 25 mL mark with water to be tested.

NOTE: To test for total alkalinity only, omit Steps 2 & 3.

2. Add 3 drops R-0638G Phenolphthalein Indicator. Swirl to mix. If colorless—proceed to Step 4. If pink (Fig. 1), add R-0896 Sulfuric Acid dropwise, swirling and counting after each drop, until color just changes from pink to colorless.
3. Multiply drops of R-0896 Sulfuric Acid by 100. Record as parts per million (ppm) active alkalinity as sodium oxide (Na₂O).
4. Add 5 drops R-0645 Total Alkalinity Indicator. Swirl to mix. Sample will turn green (Fig. 2).
5. Add R-0896 Sulfuric Acid dropwise, swirling and counting after each drop, until color changes from green to red (Fig. 3).
6. Multiply drops of R-0896 used in Step 5 by 100. Add to active alkalinity (Step 3). Record as parts per million (ppm) total alkalinity as sodium oxide (Na₂O).

TOTAL ALKALINITY FOR VARIOUS WASH FORMULAS

Formula	ppm of Na ₂ O	Drops of R-0896 Needed for Titration
light soil	400-600	4-6
medium soil	600-900	6-9
heavy soil	1800-2500	18-25
shop towels	2500-3700	25-37



31 Circle, Sparks, MD 21152 USA
800-TEST KIT (837-8548) • 410-472-4340 6/17



Fig. 1



Fig. 2



Fig. 3