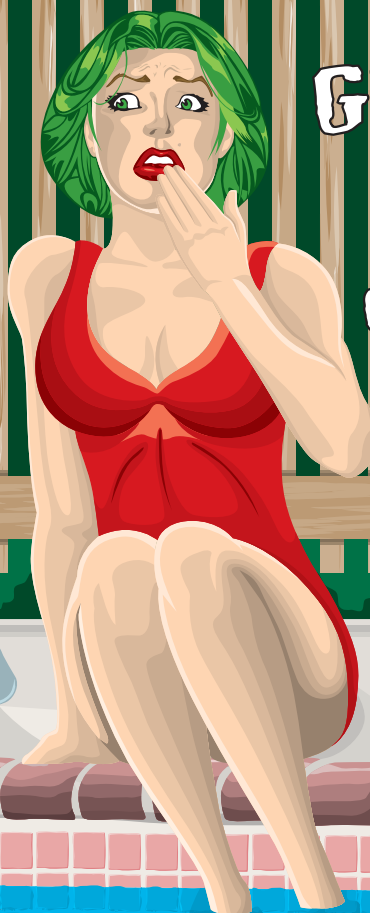
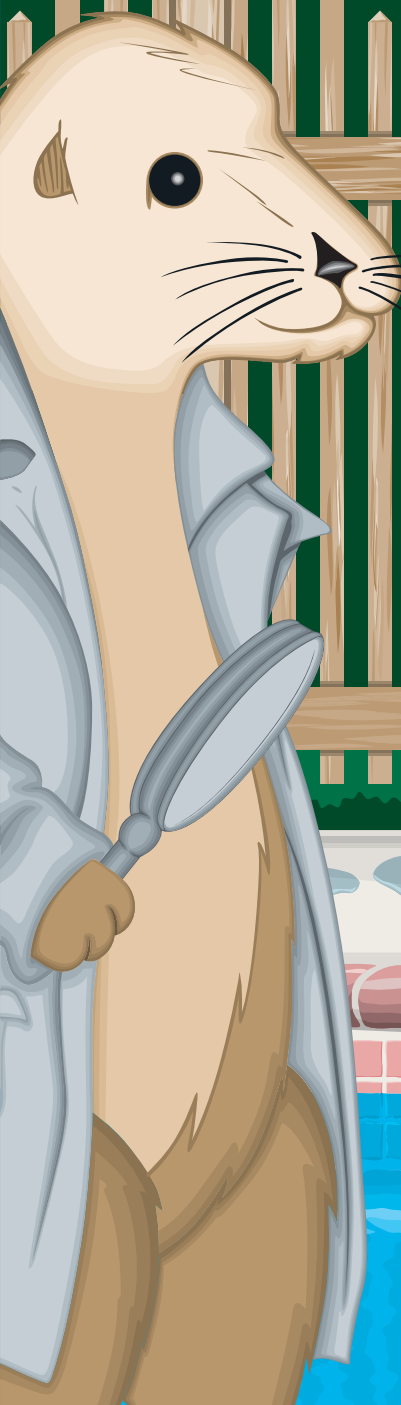


POOL DETECTIVE MAGAZINE



THE CASE OF
THE
GREEN-HAIRED
SWIMMERS
AND
OTHER TERRIFYING
TALES OF WATER
CHEMISTRY
GONE WRONG



TEST KIT SELECTION GUIDE

PI's know  on the label means:

- Dependable Chemistries
- Durable Components
- Simple Instructions
- Superior Technical Support
- Value Pricing

Being a Pool Investigotter is challenging. It's not all cold drinks and oooo-la-la. Sure, I get to spend a lot of time in gorgeous surroundings. But when I'm on the job I have to keep my concentration. I'm 100% focused on whatever water-quality problem stands between my client and an enjoyable dip in the pool or soak in the spa. When I was coming up in the biz, a thorough investigation meant literally throwing myself into a case—I'd dive right in to detect bad water chemistry. Investigotters are extremely aqua-sensitive, you know.

These days PIs have learned to work smarter. Now I do my sleuthing with Taylor's test kits. Not enough sanitizer to protect swimmers? Corrosive or scaling tendencies harmful to surfaces and equipment? Metals in the water ready to stain? I get reliable results, and I get them quickly.

Taylor water tests take the guesswork out of treatment decisions. You can count on them, just like I do!



The Pool Investigotter
Nature's Premier Aquatic Detective

P.S. This year's Test Kit Selection Guide features some of my most memorable cases, all cracked with the aid of a Taylor test kit. Be warned! These stories aren't for the squeamish.

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Order From:

Clarkson Laboratory & Supply Inc. 350 Trousdale Drive Chula Vista Ca. 91910
Phone 619-425-1932 Fax: 619-425-7917 E-mail: sales@clarksonlab.com

We offer a 20% discount with a \$100 minimum purchase.

Our business hours are 8:30 a.m. - 4:00 p.m. Pacific Standard Time, Monday through Friday, except major holidays.

Authorized Distributor www.clarksonlab.com



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NEW FOR 2004

sureTRACK™ Test Strips



When the market asked, we are Taylor's test strips? we said, They'll have to be pretty special before we'll put our name on the bottle. The company's reputation as the most trusted name in water testing is our greatest asset. When we released our sureTRACK™ - 4 test strips last year, after trials by consumers and experts alike, our dry chemistry formulations proved themselves worthy. From the dispenser to the color standards to the reagent pads, our strips delivered convenience without compromise. We're pleased to announce that in 2004 the same can be said of our new sureTRACK™ - 6 test strips!

Each bottle of these six-way tests contains 6 strips to simultaneously determine free chlorine or bromine, pH, total alkalinity, total hardness, and cyanuric acid stabilizer. (The four-way tests include the same parameters, minus hardness and stabilizer.) The target ranges for each of these values correspond to the updated recommendations of the American National Standards Institute (ANSI) and the National Spa & Pool Institute (NSPI). **Note:** the chemical indicator in our free chlorine test will not give a false-positive result in the presence of monopersulfate shock or a high level of combined chlorine.

Product ships in plain cartons and is peggable. A free counter display for 25 bottles may be requested by calling **800-TEST KIT** or by e-mailing customerservice@taylortechnologies.com.

Savings increase with the size of the order. Call your Taylor distributor to inquire about higher quantities than shown.

Countertop Display

Purchase sureTRACK™ 4r - Dip-n-Read Water Quality Tests by Taylor Technologies and receive this sturdy countertop display at no additional charge. The colorful merchandiser holds 25 bottles of strips, features the Pool Investigotter™, and measures 2 1/2 wide by 2 1/2 deep by 8 1/2 high.

A sureTRACK™ - 4
Free Chlorine 0-0 ppm
Bromine 0-20 ppm
pH 6.8-8.2
Total Alkalinity 0-200 ppm
25-count multipack (carton)

sureTRACK™ - 4
6-count multipack (2 cartons)

sureTRACK™ - 4
100-count multipack (4 cartons)

sureTRACK™ - 4
60-count multipack (20 cartons)

B sureTRACK™ - 6
Free Chlorine 0-0 ppm
Bromine 0-20 ppm
pH 6.8-8.2
Total Alkalinity 0-200 ppm
Total Hardness 0-800 ppm
Cyanuric Acid 0-800 ppm
25-count multipack (carton)

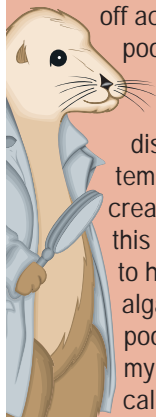
sureTRACK™ - 6
6-count multipack (2 cartons)

sureTRACK™ - 6
100-count multipack (4 cartons)

sureTRACK™ - 6
60-count multipack (20 cartons)

Mystery of the Spotted Pool

The call came in the middle of a hot, humid day. A distressed man said the surface of his pool had developed mysterious dark-colored spots, and he needed a PI to figure out why. I put thoughts of a cold one away and hurried off. When I reached the pool, the owner opined it was metal staining. But I took one look at those spots and knew the nemesis we were facing. You don't soon forget the look of black algae! The diagnosis was simple, but how had algae established itself in a seemingly well-maintained pool? I got out my Taylor sureTRACK™ test strips and performed a sanitizer check; the free chlorine level was drastically low. Sir, do you have an automatic chlorinator? I asked. He did, and I asked him to show it to me. Sure enough, the chlorinator had been switched off accidentally. Unfortunately, the pool owner hadn't tested his chlorine level every day like he should. Inadequate disinfection and scorching temperatures had combined to create the perfect conditions for this tenacious invader. I rushed to his chemical supplier for algaecide and a stainless steel pool brush, and I went back to my office to wait for the next call. Case closed.



Residential Series™

Liquid reagents in the Residential Series™ come in .75 oz. bottles. Both the Basic™ and Trouble-Shooter™ kits offer a choice of orthotolidine (OT) or N,N-diethyl-p-phenylenediamine (DPD) for determining sanitizer residuals. DPD is recognized by public health authorities as the best method for testing recreational waters.

Tests are protected in opaque, injection-molded plastic cases suitable for hanging or counter display.

ABasic™ OTH

Total Chlorine .5-5 ppm
Bromine 1-10 ppm
pH 6.8-8.2
Spanish (K-1000S-24)

24-pack in carton display

Bsic™

Free Chlorine .5-5 ppm
Bromine 1-10 ppm
pH 6.8-8.2
Spanish (K-1001S-24)

24-pack in carton display

Bsic™ DP

Free Chlorine .25-2.5 ppm
Bromine .5-5 ppm
pH 6.8-8.2

24-pack in carton display

TroubleShoter™ OTH

Total Chlorine .5-5 ppm
Bromine 1-10 ppm
pH 6.8-8.2
Acid & Base Demand
Total Alkalinity

12-pack in carton display

BTroubleShoter™

Free & Total Chlorine .5-5 ppm
Bromine 1-10 ppm
pH 6.8-8.2
Acid Demand
Total Alkalinity

Spanish (K-1004S-12)

12-pack in carton display



Residential Series™ Comparator (sbw)

Recognized by two equal-size test cells and five printed-color standards. Calibrated to work with pH reagents R-0014, R-0015, and R-0016. Features dual sanitizer values, protected color standards, and molded volume marks.

BONUS WITH PURCHASE

BTaylor Btailors

An educated shopper will appreciate the value in a premium test kit. Help your customers choose the best kit for their needs, use their kit to head off common water problems, and understand when to seek your expert advice. Test Kit Learning Center with 450 leaflets is FREE upon request with a case purchase of Basic™ or Trouble-Shooter™ kits (\$3.50 shipping/handling fee will be added).



CONSUMER PRODUCTS

Residential Series™ (Continued)

The do-it-yourself type is not afraid to learn new skills. These are the consumers who will appreciate our new i-CARE™ kit (K-1005), a comprehensive set of pool and spa water-quality tests for homes connected to the Internet. Modeled after the Complete™ kit in our 2000 Series™ for professionals—a longtime favorite of service technicians—it contains all the tests needed to assure sanitary, balanced water, including chlorine stabilizer (cyanuric acid) and calcium hardness.

In most areas of the country, if owners keep their water chemistry within the ideal ranges noted in the user's manual, this will be sufficient to keep the vessel and its equipment protected from corrosion and scaling. When testing reveals parameter(s) outside the ideal range, consumers can determine what treatment is necessary to balance the water by accessing Taylor's website, selecting POOL/SPA, clicking on ANALYZE WATER, and then plugging in their test results.

Note: Users without Internet access should purchase the Complete™ kit (K-2005) on page 9 which contains a Mergram™ for balance calculations.

The K-1005 employs the high-range comparator (982) like other kits in the Residential Series™. The DPD method is used exclusively for determining chlorine and bromine levels. A 25 mL sample tube (4034) is included for performing the total alkalinity and hardness tests, as is a specially marked test tube for determining the level of stabilizer in outdoor pools that are protected from chlorine degradation by cyanuric acid. The molded plastic case, which will stack or hang, secures .75 oz. bottles of reagent.

- AICB™**
- Free & Total Chlorine .5-5 ppm
- Bromine 1-10 ppm
- pH 6.8-8.2
- Acid & Base Demand
- Total Alkalinity
- Calcium Hardness
- Cyanuric Acid

6-pack; no display carton
Inquire about availability of instructions in Spanish

BALANCES WATER!



Alternative-Sanitizer Tests

- B** **Bromid sanitizer**
- Proxid sbcl**
- 1 drop = 5 ppm PHM
- 1 drop = 5 ppm H₂O₂
- C** **Sodium Chlorid for salt water chlorine generators**
- 1 drop = 200 ppm NaCl

In-Store Testing & Treatment



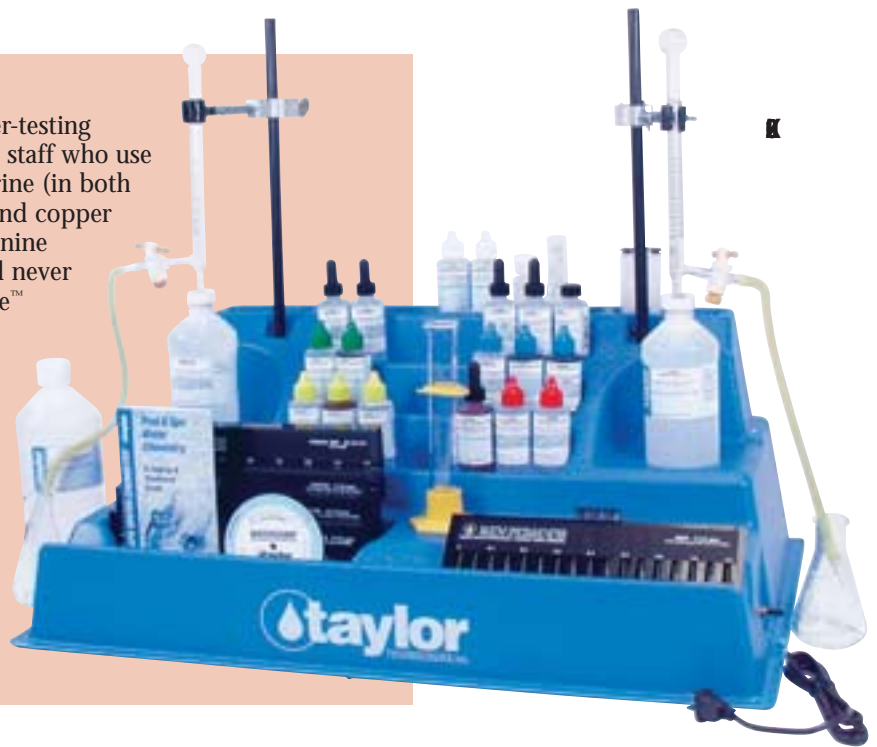
◀ hStore Bits:

Retailers, Taylor's product designers kept your needs firmly in mind when they developed these two countertop laboratories. Both options offer attractive, low-maintenance housing to keep reagents and testing apparatus organized; easy access to the tests most commonly performed on pool and spa water; and room for large bottles of reagents to minimize restocking. The test methods are easy to perform, and over many years they have proven to yield results that can be relied upon to treat problem water. **With either lab there will be no downtime for repair or calibration of delicate instrumentation. All this can be yours for a substantially lower initial investment—and subsequent lower cost-per-test—than competing models.**

Water Analysis Center

A long-time favorite, this impressive display of water-testing apparatus confers an aura of professionalism on the staff who use it. Five Slide™ comparators read free and total chlorine (in both high and low ranges), pH, acid and base demand, and copper and iron content. Each Slide™ comparator contains nine liquid-color standards of precise hue, all guaranteed never to fade, for reliable color matching. A built-in Dalite™ lamp simulates natural northern light for true color comparisons indoors. Total alkalinity and hardness (calcium, magnesium, and total) are determined titrimetrically with two burets. The control and accuracy of self-zeroing burets like these makes buret titration the choice of serious analysts. Chlorine stabilizer levels are determined turbidimetrically with a CX view tube (99). The lab base is vacuum-formed, high-impact polystyrene; it is 27 wide by 17 3/4 deep by 10 1/2 high.

Bonus! All purchasers will receive a colorful vinyl banner for in-store display plus P-O-P materials (986) shown on page 5 (while quantities last).



◀ Counterlab 1

With its small footprint, just 21 3/4 wide and 8 deep, this lab unit is just the prescription for retailers with limited space. Its aluminum base houses the same reagents and printed-color comparator as in the Service Complete™ test kit; it features a built-in Dalite™ lamp for accurate color matches during sanitizer and pH tests plus a built-in magnetic stirrer for easy, complete titrations during alkalinity and hardness tests; and a quart container is provided for high-volume cyanuric acid testing, done with a plunger-type cylinder (4088). Three setup options are available ask your distributor for details.

Bonus! All purchasers will receive a colorful vinyl banner for in-store display.



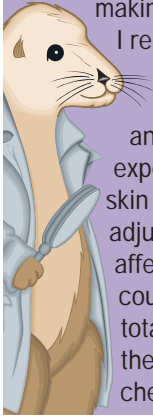
PROFESSIONAL USE

2000 Series™

Tale of the Bouncing pH

Fridays are always a busy day for me because of all the weekend pool parties parents throw for their kids. My most recent call went like this. "Mr. Investigotter, we're having a pool party for our daughter's birthday on Sunday, but there's something wrong with our water. The pH reading is jumping around, and we don't know why." Being a PI, I knew immediately I was looking at a case of dreaded "pH bounce."

I hurried to the pool with my Taylor K-2015 and performed a total alkalinity test. Sure enough, the alkalinity was very low, thus making the pH difficult to stabilize. I reminded the owners to test total alkalinity weekly to prevent damage to their pool and its equipment, unnecessary expenditures on chlorine, and skin and eye irritation. Since adjusting total alkalinity can also affect pH, I suggested the couple always correct their total alkalinity first. Then I put the wraps on yet another water chemistry puzzle.



The 2000 Series™ is designed for the kind of comprehensive, routine testing performed by service technicians, commercial and public pool operators, and environmental health specialists.

The 2000 Series™ allows users to build up their test kits in a stepwise fashion as their testing needs grow, without having to purchase a brand new case or color comparator unnecessarily. Reagents needed to upgrade kits appear on pages 18-19

A fully built-out kit, such as our best selling **Service Complete™-High Range** kit (below), contains tests for sanitizer and all the elements of water balance.

These DPD kits contain a 056 (high range) or 057 (low range) or 058 (pH only) comparator. Reagents come in .75 oz. bottles except in Service Complete™ kits; these offer 2 oz. bottles for high-volume testers.

Every kit in the 2000 Series™ includes a copy of *Pool & Spa Water Chemistry*, complete with 11 tables to facilitate chemical adjustments, as well as Taylor's unique **Watergram™** for quick water balance calculations.



IMPROVED SNUG-TIGHT COMPARATOR CAPS

both chlorine and bromine values

no-peel, no-scratch color standards

dilution marks for higher-than-normal concentrations

no separate test tube needed for CYA test

waterproof instructions
color-coded to reagents

handle on service-size case

molded polypropylene case for durability

Watergram™ for calculating water balance

60-page illustrated testing and treatment guide

living hinge for longer life



2000 Series™

molded, raised fill marks ensure proper volumes

YOUR NAME HERE!
See page 22 for customization threshold



9199

Starter™ -High (K-2000)

Free & Total Chlorine .5-5 ppm
 Bromine 1-10 ppm
 pH 7.0-8.0
 Acid & Base Demand

Spanish (K-2000S-6)

English also available in 6-pack
 Spanish only available in 6-pack

Starter™ -Low (K-2100)

Same as K-2000 except:
 Free & Total Chlorine .25-2.5 ppm
 Bromine .5-5 ppm

Test 4™ -High (K-2015)

Free & Total Chlorine .5-5 ppm
 Bromine 1-10 ppm
 pH 7.0-8.0
 Acid & Base Demand
 Total Alkalinity

◀ **Gepe Slim Lite™ (9199):**

Accurate color matching with the 2000 Series™ comparators requires natural daylight. Indoors, simulate daylight with the same illuminator used by professional photographers. This lightweight, portable unit runs on batteries or with an AC adapter (both included).

2000 Series™ Comparator (9056 shown or 9057): ▶

Recognized by one small and one large test cell and six printed-color standards. Calibrated to work with pH reagents R-0004, R-0005, and R-0006. Features dual sanitizer values, protected color standards, and molded volume marks.



A
K-2115

A Test 4™ -Low (K-2115)

Same as K-2015 except:
 Free & Total Chlorine .25-2.5 ppm
 Bromine .5-5 ppm

B Complete™ -High (K-2005)

Free & Total Chlorine .5-5 ppm
 Bromine 1-10 ppm
 pH 7.0-8.0

Acid & Base Demand
 Total Alkalinity
 Calcium Hardness
 Cyanuric Acid

Spanish (K-2005S)

French (K-2005F)

All versions also available in 6-packs

Complete™ -Low (K-2105)

Same as K-2005 except:
 Free & Total Chlorine .25-2.5 ppm
 Bromine .5-5 ppm

C Service Complete™ -High (K-2005C)

Same as K-2005 except features 2 oz. reagents and larger carrying case
Spanish (K-2005CS)

Both versions also available in 8-packs

Service Complete™ -Low (K-2105C)

Same as K-2105 except features 2 oz. reagents and larger carrying case

California Regulatory™ (K-2007)

Free & Total Chlorine .5-5 ppm
 Bromine 1-10 ppm
 pH 7.0-8.0
 Cyanuric Acid

Appropriate for high-volume testing of CX

SERVICE-SIZE IT!

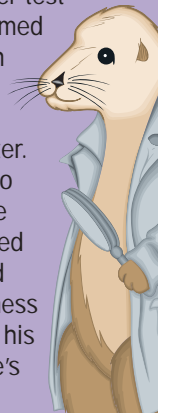


C
K-2005C

B
K-2005

The Rough Plaster Disaster

Nothing stops a refreshing soak faster than snagging your suit (birthday or otherwise) on rough surface deposits. But that's exactly what my last client was confronted with. At the crime scene, I found cloudy water, scaling, a partially clogged filter, and inefficient heating marring an otherwise beautiful spa. I suspected the cause right away, and a water test with my Taylor K-2005 confirmed it. The spa was afflicted with high calcium hardness. Unfortunately, removing these deposits was no simple matter. It was clear the owner had to hire professionals to give the plaster an acid wash. I wished him good luck, and reminded him to test for calcium hardness at least once per month. For his spa's sake—and his derriere's—I hope he'll remember.



PROFESSIONAL USE

2000 Series™ Kits with the FAS-DPD Advantage

The latest trend in chlorine testing at commercial aquatics facilities has been to a refinement of the DPD color-comparison method—the FAS-DPD titration. With an FAS-DPD titration you can read free and combined chlorine directly, without subtraction; **measure these levels as low as 0.2 ppm and as high as 20 ppm**; and eliminate color matching.

Calculations of treatment dosages are more accurate—no under- or overdosing. Very high levels of chlorine that would be off-scale on a color comparator are easy to determine by counting drops. And, the distinct change in the treated water sample from vibrant pink to no color is easy for everyone to see.

Taylor offers an FAS-DPD version of several 2000 Series™ kits, listed at right. In addition, FAS-DPD tests can be purchased separately in both .75 oz. and 2 oz. sizes (chlorine is K-1515, bromine is K-1517, chlorine/monopersulfate combo is K-1518; see Specialty Tests on page 14).

A Complete™ AS-~~C~~Chlorine (K-2006)

Same as K-2005 except uses 058 comparator, sanitizer tests are titrations to improve accuracy and eliminate color-matching problems, and Free & Combined Chlorine 1 drop = 0.2 or 0.5 ppm

Also available in 6-packs

Complete™ AS-Bromine (K-2106)

Same as K-2006 except ~~CX~~ test is not needed and Bromine 1 drop = 0.5 or 1.25 ppm

Also available in 6-packs

Service Complete™ AS-B Chlorine (K-2006C)

Same as K-2006 except features 2 oz. reagents, more DPD powder, and larger carrying case

Also available in 8-packs

B California Regulatory™ AS-B Chlorine (K-2009)

Same as K-2007 except uses 058 comparator, sanitizer tests are titrations to improve accuracy and eliminate color-matching problems, and Free & Combined Chlorine 1 drop = 0.2 or 0.5 ppm

Appropriate for high-volume testing of ~~CX~~



B
K-2009

▲ 2000 Series™ AS-B Comparator (905)

Identical to 056 and 057 blocks except printed-color standards are needed for pH test only. Sanitizer tests performed in the small test cell are titrations that do not require color matching.



A
K-2006

MORE FAS-DPD KITS ON PAGE 14

AS-~~C~~Titration:

Colorblind for reds will still be able to see this FAS-DPD titration's endpoint—the solution changes from color to no color, as shown in this demonstration.





Met™ Comparator (9049 for low-range copper shown):

Recognized by eight liquid-color standards and a single test cell. Measures one parameter. Calibrated to work with specific reagents. Use when color and turbidity in the water sample are not problems.

Commercial Series™

Kits in the Commercial Series™ test for two closely related parameters using liquid-color standards. The Slide™ and Midget™ comparators in this series give the most accurate colorimetric readings available short of high-end electronic instrumentation. Cases are custom-molded plastic; reagents are .75 oz. in Midget™ kits and 2 oz. in Slide™ kits. If you are an operator or regulator of a commercial facility and you don't see the ranges or combinations to meet your local ordinances, call us toll-free at 800-TEST KIT.

A Copper & Iron Mjets (K-1264)

Copper 0.2-3.0 ppm
Iron 0-2.0 ppm

Chlorine-High & H Slids (K-1765H)

Free & Total Chlorine 1.0-10 ppm
pH 6.8-8.4

B Chlorine-Low & H Slids (K-1765)

Free & Total Chlorine 0-3.0 ppm
pH 6.8-8.4

Chlorine-Low & H Mjets (K-1762)

Free & Total Chlorine 0.2-3.0 ppm
pH 6.8-8.2

Bromine-High & H Slids (K-178H)

Bromine 2.0-10 ppm
pH 6.8-8.4

Bromine-Low & H Slids (K-178)

Bromine 0-3.0 ppm
pH 6.8-8.4



A
K-1264



B
K-1765

Slide™ Comparator (908A for low-range chlorine shown):

Recognized by nine liquid-color standards and three test cells. Slide™ sits in Enslow base. Measures one parameter. Calibrated to work with specific reagents. Used to compensate for color and/or turbidity in the water sample.



9195

Blite™ Lamp (9195):

Testing indoors? You'll need a source of simulated daylight for accurate color matching. Use the Gepe Slim Lite™ (9199, pictured on page 9) with Midget™ comparators and the Dalite™ lamp (9195, pictured at right) with Slide™ comparators.



PROFESSIONAL USE

Professional Series™

Taylor offers a wide selection of test combinations for comprehensive pool water analysis, as the selection guide shows. As a series, these kits are distinguished by the accuracy of liquid-to-liquid colorimetric testing (see illustrations of Midget™ and Slide™ comparators on page 11), 2 oz. reagents, and attaché-style carrying cases. The kit described below is representative of the **Professional Series™**; please refer to the *Pool & Spa Water Testing Products Price List*, your Taylor distributor, or one of our customer service representatives for detailed information about kits not shown.

Professional Series™ Test Kit Selection Guide

Tests	K-1741	K-1741C	K-1741STR	K-1742	K-1742C	K-1744H	K-1744HC	K-1744L	K-1744LC
Total Chlorine	•	•	•			•	•	•	•
Free Chlorine	•	•	•			•	•	•	•
Bromine				•	•				
pH	•	•	•	•	•	•	•	•	•
Acid Demand	•	•	•	•	•	•	•	•	•
Base Demand	•	•	•	•	•	•	•	•	•
Total Alkalinity	•	•	•	•	•	•	•	•	•
Calcium Hardness	•	•	•	•	•	•	•	•	•
Total Hardness				•	•				•
Cyanuric Acid	•	•	•			•	•	•	•
Copper		•			•		•		•
Iron		•			•		•		•

Features	K-1741	K-1741C	K-1741STR	K-1742	K-1742C	K-1744H	K-1744HC	K-1744L	K-1744LC
Liquid Reagents	•	•	•	•	•	•	•	•	•
Printed-Color Comparator									
Liquid-to-Liquid Comparator	S	S	S	S	S	M	M	M	M
Reagents Color-Coded to Instructions	•	•	•	•	•	•	•	•	•
Waterproof Instructions	•	•	•	•	•	•	•	•	•
Treatment Charts	•	•	•	•	•	•	•	•	•
2004B Chemistry Guide	•	•	•	•	•	•	•	•	•
Watergram	•	•	•	•	•	•	•	•	•
Expandable Kit	•	•	•	•	•	•	•	•	•
Large-Size Reagents	•	•	•	•	•	•	•	•	•
Hard Case									
Attaché-Style Case	•	•	•	•	•	•	•	•	•

M Midget™ comparator with 8 color standards;

S Slide™ comparator with 9 color standards (compensates for color and turbidity in sample)

A
K-1741C



A Professional Complete™ Chlorine (K-1741C)

- Free & Total Chlorine 1.0-10 ppm
- Free & Total Chlorine 0-3.0 ppm
- pH 6.8-8.4
- Acid & Base Demand
- Total Alkalinity
- Calcium Hardness
- Total Hardness
- Cyanuric Acid
- Copper
- Iron

**TAKE A LAB
POOLSIDE**

Meter Kits

Two industry leaders team up to give you test results you can rely on: these kits feature advanced technology from the **Myron L Company**, America's foremost manufacturer of handheld instruments for water analysis, plus the Taylor chemistries you know and trust.

Parameter Specifications	Mon L MI 6P (in K-6550)
Oxidation Reduction Potential (ORP)	±999 mV
pH Range	0-14 pH
TDS Range	0-9999 ppm, 10-200 ppt
Conductivity Range	0-9999 µS, 6-200 mS
Resistivity Range	10 KΩ-30 MΩ
Temperature Range	0-71° C 32-160° F
Temperature Compensation	Automatic 0-71° C; plus user adjustable 0-9.99% per °C
Accuracy	±1% of reading
Calibration	Keypad with prompts
Power	9 V alkaline battery (with low battery warning)
Dimensions	7.7" l x 2.7" w x 2.5" h
Weight	<14 oz.
Meter	Limited 2-year
Warranty	from Myron L Co.

pH Mer Specifications	Mon L MI pH1 (in K-6510)
Range	0-14 pH
Resolution	.01 pH
Accuracy	±.05 pH
Auto Temperature Compensation	0-71° C 32-160° F
Calibration	Finger-adjustable controls
Power	9 V alkaline battery (with low battery warning)
Dimensions	7.7" l x 2.7" w x 2.5" h
Weight	<12 oz.
Meter	Limited 2-year
Warranty	from Myron L Co.

TDS Mer Specifications	Mon L MI 512T5 (in K-6540)
Range	0-5000 ppm TDS
Resolution	Taut-band meter movement
Accuracy	±2% full scale
Auto Temperature Compensation	10-71° C 50-160° F
Calibration	Finger-adjustable controls
Power	9 V zinc carbon or alkaline battery
Dimensions	4.5" l x 3.4" w x 4.0" h
Weight	16 oz.
Meter	Limited 2-year
Warranty	from Myron L Co.

**NOW! 6-IN-1,
INCLUDING ORP**

K-6550



K-6510



K-6540



Specialty Tests

Want to verify the available chlorine content of a batch of sodium hypochlorite? Check a biguanide-sanitized pool? Monitor a polyquat algaecide? Chances are, we make whatever specialty test you need.

Most tests are performed by one of two popular techniques: titration with drop tests (D) whose endpoints are signaled by a striking change in color, or colorimetric comparison using liquid-color standards in Midget™ (M), Slide™ (S), or Longiewpath™ (L) comparators.

Some of our best selling kits are pictured here. For a complete listing of specialty items, contact us at 800-TEST KIT or consult your price list.

Acidity

K-1547 (D) 1 drop = 0.5 g/100 mL HCl

AC Polyquat Algaecid

A K-1582 (D)

1 drop = 10 or 25 ppm AC,

1 drop = 3.5 or 9 ppm polyquat

K-9065 (D)

1 drop = 1.25 ppm AC,

1 drop = 0.5 ppm polyquat

Alkalinity

K-1726 (D) 1 drop = 10 ppm CaCO₃

Biguanid/Hydrogen Peroxide

B K-1725 (D)

1 drop = 5 ppm PHMB,

1 drop = 5 ppm H₂O₂

Bromine

K-1241 (S) 0-3.0 ppm

K-1517 (D) 1 drop = 0.5 or 1.25 ppm

Two reagent sizes available **AS-B**

K-1773 (M) 0.2-3.0 ppm

Chlorine (free, combined & total)

C K-1289 (S) 1.0-10 ppm

D K-1515 (D) 1 drop = 0.2 or 0.5 ppm

Two reagent sizes available (.75 oz. shown) **AS-B**

E K-1518 (D) same as K-1515 with 2 oz. reagents except 1 drop = 0.2 ppm only, plus test to distinguish monopersulfate shock **AS-B**

K-1768 (M) 0.2-3.0 ppm

K-9047 (M) 0.1-2.0 ppm

Chlorine (total only)

K-1141 (S) 0.2-12 ppm

K-1201 (S) 0-1.0 ppm

Chlorine Bleach (sodium hypochlorite)

K-1579 (D) 1 drop = 10 or 100 ppm, 0.05 or 0.5%



MORE FAS-DPD KITS ON PAGE 10



D
K-1515



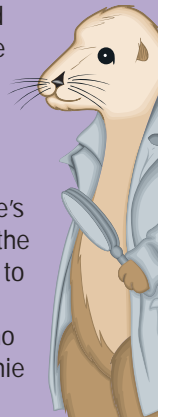
E
K-1518



F
K-178

The Color-Matching Conundrum

I stopped by a local pool supply store one morning to replenish my reagents. Waiting in line to check out I heard two guys talking in hushed tones behind me. I immediately grew suspicious and began to eavesdrop. "No, that's not it," one said, "I'm following the directions exactly, I just can't read the sanitizer level. Three ppm, five ppm, who can tell the difference?" I spun around and asked the troubled tester if he used a color comparator for sanitizer checks. Turns out he did. I pulled a Taylor **AS-D** kit off the shelf and handed it to him. "You'd better take one of these with you," I told him, "Sounds to me like you have red-green colorblindness." He looked at me incredulously, so I explained that about 6% of men have difficulty differentiating between the pink colors on a standard comparator, which is just one of the reasons Taylor offers FAS-DPD sanitizer tests. Instead of comparing colors, you just titrate until the pink sample turns colorless. There's no guesswork involved, and the FAS-DPD method allows you to determine both free and combined chlorine directly, no subtraction required. (A bennie I myself appreciate.)



Copper

F K-1738 (M) 0.2-3.0 ppm

Cyanuric Acid

G K-1720 (visual by turbidity) 20-100 ppm

Photo page 16

Box Reagent

Use with liquid DPD or FAS-DPD chlorine tests to eliminate interference from monopersulfate shock

H K-2041 (D) .75 oz.

Photo page 16

K-2042 (D) 2 oz.

Hardness

K-1770 (D) 1 drop = 10 ppm CaCO_3

Hydrogen Peroxide

K-1825 (D) 1 drop = 5 ppm

Iron

K-1716 (M) 0-2.0 ppm

Manganese

K-3221 (L) 0-3.0 ppm

PROFESSIONAL USE

Nitrate

K-1128 (S) 0-10 ppm, 0-100 ppm
by dilution

Ammonia

K-1818 (S) 0-2.0 ppm

I K-1822 (S) 0-0.66 ppm

pH

K-1285-1 (M) 3.0-10.0

K-1285-2 (M) 6.8-8.2

K-1285-6 (M) 7.2-8.6

Phosphate

J K-1106 (printed-color standards)
0-1000 ppb

Sodium Chloride (salt water)

K K-1766 (D) 1 drop = 200 ppm NaCl

K-1767 (D) 1 drop = 20, 40, 100,
200, or 800 ppm NaCl

L Total Dissolved Solid

K-1764 (D) 1 drop = 50 ppm CaCO₃



G

K-1720

See page 15

H

K-2041

See page 15



FOR ALGAE CONTROL

J

K-1106



I

K-182





K
K-1766

**USE WITH SALT
WATER CHLORINE
GENERATORS**



L
K-1764

Case of the Green-Haired Swimmers

I was sitting in my office one day, checking the expiration date on my test strips, when the phone rang. "What's that?" I said to the frantic lady on the other end, "You and your son went swimming, and now you've both got green hair? I'll be right there." When I got to the scene, I found the boy's mother in a panic. She was sure their green hair was due to too much chlorine, but she had tested the sanitizer level, and it was within the ideal range. "Ma'am," I said, "that chlorine myth is the oldest one in the book." As all PIs know, copper turns hair green, not chlorine. I unpacked my Taylor K-1738, took a water sample, added some reagents, and sure enough the sample developed a blue color, which I matched to my printed-color standards—2.0 ppm! Her eyes beseeched me for reassurance. "Copper gets into pools and spas through fill water, treatment, or from plumbing corroded by unbalanced water, so more investigation will be necessary to determine the exact source of the metal," I said. I pointed the former blonde in the direction of some swimmer's shampoo to prevent any more unintentional hair-coloring episodes. The Case of the Green-Haired Swimmers was resolved by that afternoon.



Industrial and Commercial Water Testing

In addition to its pool- and spa-related products, Taylor manufactures test kits for analyzing water in a wide variety of institutional, industrial, and commercial applications:

- Agriculture/Aquaculture
- Boiler and Cooling Systems
- Environmental Monitoring
- Food Processing and Bottling
- Industrial Cleaning
- Industrial Processing
- Potable Water
- Science Education
- Testing Laboratories
- Wastewater
- Water Conditioning



REFILLS & UPGRADES

Individual Reagents

Many of our reagents are specifically formulated to work with a test cell of certain volume. Therefore, when ordering replacement reagents it is helpful to know the part number of the kit the reagent came from (K-XXXX) or the reagent number itself (R-XXXX). Because all chemicals have a shelf life, you should gauge your usage rates carefully before ordering in quantity and be sure to rotate your stock.

Reagents are available **singly** for all field sizes shown in this catalog, and most in **boxed multi-packs**. Many reagents are also offered in **bulk** (pints, quarts, gallons, pounds, tablet multi-packs, etc.). All available reagents, including DPD tablets, are listed in the *Pool & Spa Water Testing Products Price List*. The tables below show replacement reagents for our most popular products.



▲ Replacement Reagents in .75 or 2 oz. Bottles:

Use the shipping cartons to display reagents neatly. Mix and match to suit your needs, as shown.

Residential Series™

	R-0001	R-0002	R-0003	R-0007	R-0008	R-0009	R-0010	R-0011L	R-0012	R-0013	R-0014	R-0015	R-0016	R-0600
Kits														
K-1000											1A			1A
K-1001 K-1101	1A	1A									1A			
K-1003				1A	1A	1A					1A	1A	1A	1A
K-1004	1A	1A	1A	1A	1A	1A					1A	1A		
K-1005	1A	1A	1A	1A	1A	1A	1A	1A	1A	2A	1A	1A	1A	

2000 Series™

	R-0001	R-0002	R-0003	R-0004	R-0005	R-0006	R-0007	R-0008	R-0009	R-0010	R-0011L	R-0012	R-0013	R-0870	R-0871	R-0872
Kits																
K-2000 K-2100	1A	1A	1A	1A	1A	1A										
K-2015 2115	1A	1A	1A	1A	1A	1A	1A	1A	1A							
K-2005 2105	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	2A			
K-2005C K-2105C K-0203	1C	1C	1C	1C	1C	1C	1C	1C	1C	1C	1C	1C	3C			
K-2006				1A	1A	1A	1A	1A	1A	1A	1A	1A	2A	1I	1A	
K-2106				1A	1A	1A	1A	1A	1A	1A	1A	1A		1I		1A
K-2006C			1C	1C	1C	1C	1C	1C	1C	1C	1C	1C	2C	2I	1C	
K-2007	1A	1A	1A	1A									6A			
K-2009			1A	1A									6A	1I	1A	

* Counterlab Rx 1 contains one R-0013-F instead of three R-0013-C but otherwise mirrors the Service Complete™ test kit

Representative Other

	R-0001	R-0002	R-0003	R-0007	R-0008	R-0009	R-0010	R-0011L	R-0012	R-0013	R-0851	R-0852	R-0853	R-0854	R-0860	R-0861	R-0862	R-1003
Kits																		
K-1741	1C	1C	1C	1C	1C	1C	1C	1C	1C	4C			1C				1C	1C
K-1741C	1C	1C	1C	1C	1C	1C	1C	1C	1C	4C	1C	2C	1C	1C	1C	1C	1C	1C
K-0202	1C	1C	1C	1C	1C			1C		2C,1F	1C	2C	1C	1C	1C	1C	1C	1C

* Water Analysis Center also includes one R-0618-E, one R-0627S-50-F, and one R-0653-2-C

Key: The number equals the quantity of bottles in the kit; the letter indicates the size of the bottle: 1A = one .75 oz. (22 mL) bottle; C = 2 oz. (60 mL); E = 16 oz. (500 mL); F = 32 oz. (1000 mL); I = 10 g

Prepackaged Sets

DPD Chlorine Reagent Pack (K-0555)

R-0001 R-0002 R-0003 (.75 oz.)

Use with any Taylor comparator (except FAS-DPD kits)
Also available in 12-packs

Pool & Spa Water Chemistry Booklet & Watergram™ Replacement Pack (K-2004)

2004B 6026

Use with 2000™ and Professional™ series only
Also available in 12-packs

Deox Reagent Reagent Pack (K-2041)

R-0867 (.75 oz.)

Use with 2000 Series™
Photo page 16

Deox Reagent Reagent Pack (K-2042)

R-0867 (2 oz.)

Use with K-1518, K-2005C, Commercial™ or Professional™ series

Counterlab Rx 1™ Conversion Pack (K-0203B)

R-0013-F 2280 9792

Use with K-2005C contents to create the Counterlab Rx 1™ pictured on page 7

Translated Instruction/Water Chemistry Booklet (K-2004S, K-2004F, K-2004G)

Use with 2000 Series™ to convert English to Spanish (S), French (F), or German (G)

Proper Care of Reagents

Extreme temperature fluctuations can cause reagents to deteriorate quickly. To maintain their shelf life, store reagents at a consistent temperature of 36°–85°F (2°–29°C). If liquid reagents should freeze, they may remain useful if allowed to thaw completely at room temperature. However, if the bottle cracks, if you see a crusty buildup around the dropper tip, or if there are floating particles that do not dissolve when the bottle is shaken, the reagent should be replaced. For more detailed information, call 800-TEST KIT (837-8548) and request our technical bulletin on reagent shelf life. And, when placing an order, don't forget to request heated or "protect from freezing" service with motor freight if necessary.



The Tortured Test Kit

One of the strangest cases I've worked involved a hot tub with a terrible odor problem. When I arrived at the scene, I questioned the owners and learned their water was sanitized with chlorine and the tub was drained and refilled at proper intervals. Nevertheless, the situation smelled fishy. Well, to be more accurate, it smelled like chloramines. So I asked if they tested for both free and combined chlorine. They said they did and found the levels acceptable. I asked to inspect their test kit, and the minute I saw it I knew this caper was an inside job! Turns out the owners stored their kit spaside with the lid ripped off, exposing the contents to sunlight and high temperatures. When I asked if they took the kit inside over the winter; they cracked like a couple of icicles and told me they didn't. More inspection revealed interchanged bottle caps and reagents clearly overdue for replacement. No wonder their spa smelled; their reagents were useless. These jokers were clearly guilty of gross test kit neglect, so I threw the book at them—Taylor's *Pool and Spa Water Chemistry* book, that is. The 2004B clearly explains the proper care of reagents and much more. If your copy has gone missing, replacements are available.



K-7066-E

◀ Unsure you're getting accurate readings?

Use standard reference solutions in place of your water sample to "test your test kit." These solutions work with any manufacturer's liquid, tablet, or strip test.

R-7062-E Buffer Solution pH 7.6 (16 oz.)

R-7063-E Hardness Standard 200 ppm (16 oz.)

R-7064-E Alkalinity Standard 100 ppm (16 oz.)

R-7065-E CYA Standard 50 ppm (16 oz.)

K-7066-E All four 16 oz. solutions

Technical Assistance

If your professional responsibilities involve water quality management, you'll be pleased to know that at Taylor we're committed to providing you with accurate, timely, and easily understood information about pool and spa water chemistry.

Go one-on-one at **800-TEST KIT** or customerservice@taylortechnologies.com. Taylor's customer service representatives receive extensive product training. They can advise you about the best product for your testing application and answer questions about test procedures. **Degreed chemists** with firsthand knowledge of the special conditions that exist in pool and spa water are available to address more advanced water chemistry topics.

Visit www.taylortechnologies.com to download test instructions and Material Safety Data Sheets, review the answers to frequently asked technical questions, find product information, locate distributors, e-mail your queries and comments, and more. Check back frequently; we will add to our capabilities throughout the year.



Above: Help is just a phone call away.

Large-Group Seminars

Taylor water-testing specialists speak at trade shows, conferences, and other large-group gatherings nationwide. Look for us. Invite us!



Above: Taylor water chemistry experts have been invited to teach at the International Pool & Spa Expo and several regional trade shows; at numerous commercial pool operator training sessions; and at seminars for environmental health professionals and service technicians. left: VP of Sales Tom Metzbower, middle: Sales Manager Wayne Ivusich, right: Technical Coordinator Tody O'Grady.

Merchandising



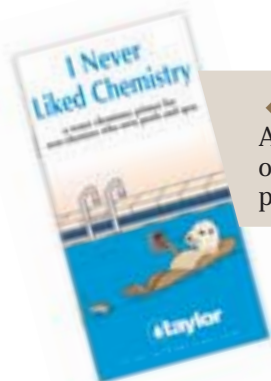
▲ Attract Customers:

To help you sell Taylor testing products, we offer these colorful merchandising aids at no charge.

Who's water-loving, eye-catching, and the perfect pitchman for Taylor testing supplies? The Pool Investigotter™, Nature's premier aquatic detective! This engaging PI is ready to help retailers direct customers to water-analysis-related areas in your showroom.

E-mail otter@taylortechnologies.com to learn how you can obtain a vinyl banner, poster, counter mat, static-cling decal, and take-one pad of Taylor testing tips, all starring the Pool Investigotter™.

Buy one of the labs on page 7 and you'll receive a vinyl banner to identify your testing station at no additional charge.



◀ I Never Liked Chemistry.

Available in packs of 50 (5695-50) or 150 (5695-150) for only pennies per copy. Updated in 2004.

Pool & Spa Water Chemistry (2004B): ▶

Popular 60-page guide includes dosage charts.



Publications

Many a newcomer to testing has been introduced to the basic concepts of water balance and sanitation by the booklet *I Never Liked Chemistry*. Most then graduate to the industry bible of water testing and treatment, Taylor's *Pool & Spa Water Chemistry*, offered in English, Spanish, French, German, and waterproof (English) editions. Sold singly; standard English version also available in a 25-pack (2004B-25).

The mailing list for our free *taylortalk* newsletter includes thousands of retail stores, service companies, builders, environmental health departments, and aquatics facilities. Every issue contains a mix of commentary, instruction, product news, and field reporting guaranteed to increase the technical knowledge of even veteran water analysts. Get your organization signed up for *taylortalk* by calling 800-TEST KIT or faxing your name and business mailing address to 410-771-4291.

◀ Newsletter:

Back issues of *taylortalk* make an excellent training tool for new hires.



TRADE SUPPORT

Custom Manufacturing

Consider the powerful impact of including reagents with Taylor labels inside kits emblazoned with your name. Several of our customers have found that including reagents with Taylor labels inside customized cases puts the same stamp of quality on their products that seeing the mark “Intel inside” does for personal computers and the “Good Housekeeping seal” does for housewares.

Or go completely custom—from case color and case label, to private-labeled reagents with your own material safety data sheets, to shipping cartons with your name and the appropriate DOT disclosures.

Now you can purchase Taylor kits with your brand name on them at no extra charge when you buy the stated minimum quantity.

Four thresholds of participation make our custom manufacturing program a cost-effective alternative to buying our liquid test kits off the shelf. Call to discuss the possibilities open to you today.



▲ Threshold 1

“Manufactured for...” on a Taylor label, blue case, Taylor reagents inside. For any Residential Series™ or 2000 Series™ wet chemistry kit. Free!

Minimum: 100+ of the same test kit



**HOT-STAMP
YOUR BRAND**

◀ Threshold 2

Free! Your brand hot-stamped on a “Taylor blue” case, Taylor reagents inside. For any Residential Series™ or 2000 Series™ wet chemistry kit.

Minimum: 1,000+ of the same test kit

**CUSTOM
COLOR CASE**

Thresholds 3 and 4 ▶

At Threshold 3, get a free multicolor custom case label on any Residential Series™ or 2000 Series™ wet chemistry kit (all other components standard issue). At Threshold 4, add your choice of case color plus customized reagent labels, instructions, MSDSs, and shipping cartons. All free!

Minimum for multicolor custom case label: 2,500+ of the same test kit
Minimum for complete customization: 10,000+ of the same test kit



**PRIVATE LABEL
OUTSIDE...**

**...AND
INSIDE**

Our Promise

Taylor Technologies is committed to be the preferred provider of water-testing products wherever water quality is monitored. We strive for complete customer satisfaction, providing you with:

- innovative business solutions
- consistent product performance
- accurate and timely delivery
- assured regulatory compliance
- and a caring and talented staff motivated to meet your expectations

Distribution Network

Domestically, Taylor test kits and reagents may be ordered through a network of **350+ distributor locations**. Two master distributors cover international sales.

What does it take to become a Taylor distributor? Adherence to the highest standards of business practice. Knowledge of the pool and spa market. Responsiveness to customers. Fair pricing. Familiarity with Taylor's products. You can expect all of this and more from our partners. With distributors throughout the continental United States plus Hawaii, we've got you covered. Call 800-TEST KIT (837-8548) for names in your area or to request a listing of our entire network.

Exports of pool and spa test kits and reagents to all other countries, except Canada, are handled exclusively by **HornerXpress Worldwide**, in Fort Lauderdale, Florida. Call 954-938-5355 (fax 954-938-5244) for assistance.

In Canada, our master distributor is **Lowry & Associates** of Newmarket, Ontario. For more information, call 905-836-0505 (fax 905-895-4539).

It is our policy never to compete with our distributors on price; however, anyone is welcome to establish an account directly with Taylor. Call our toll-free number to speak with a customer service representative about pricing, terms of sale, shipping practices, and return procedures.

DROP SHIPMENTS SPEED DELIVERY

There are nearly 700 items in our pool and spa water-testing product line. No distributor can stock them all. But our distributors *can* ask us to drop-ship directly to you so you'll have quick turn-around on your order. We do our best to make "special orders" painless—in the 48 contiguous states we're even able to offer Taylor distributors free (standard) freight and no minimum order on your drop shipment. Our goal is to make it easy to choose Taylor for all your testing needs.

Return Policy

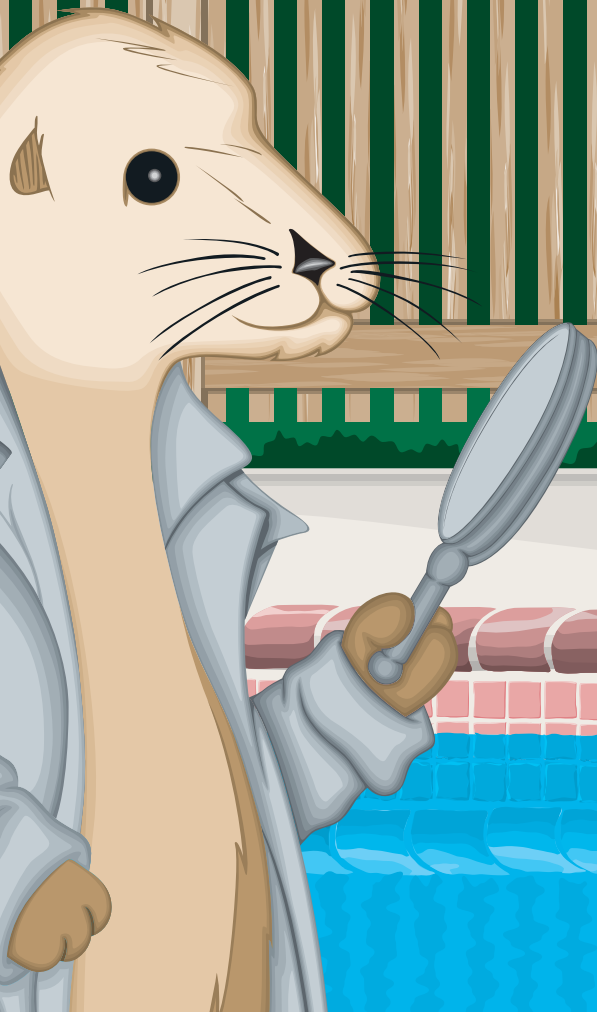
Don't wait! It's essential to check your order **immediately** upon receipt and contact your Taylor distributor—or, for direct sales, our customer service department—if there is a problem. Exchanges or credits are considered within 30 days of shipment from Taylor. Delaying notification may mean you will not be able to return the merchandise or file a damage claim with the carrier.

(If you purchased from us directly, please refer to the Taylor Order Number on the packing slip when calling. A 20% restocking fee may apply if we shipped as instructed. Note: we regret that unauthorized returns must be refused.)



Be : We never forget the customers who trust us to get the chemistry right.

POOL DETECTIVE MAGAZINE



In this issue... Taylor's full line of pool and spa water-testing products, plus intriguing tales from the Pool Investigator of water chemistry gone wrong:

Mystery of the Spotted Pool, Page 4

Tale of the Bouncing pH, Page 8

The Rough Plaster Disaster, Page 9

The Color-Matching Conundrum, Page 15

Case of the Green-Haired Swimmers, Page 17

The Tortured Test Kit, Page 19

Authorized Distributor www.clarksonlab.com
350 Trousdale Drive Chula Vista Ca. 91910
Phone: 619-425-1932 Fax: 619-425-7917 E-mail: sales@clarksonlab.com

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PERMIT NO. 17



Taylor makes the only water test kits recommended by the American Swimming Coaches Association.