

ABOTEX



PREMIUM LEAD TEST KIT

IMMEDIATE TEST RESULTS*

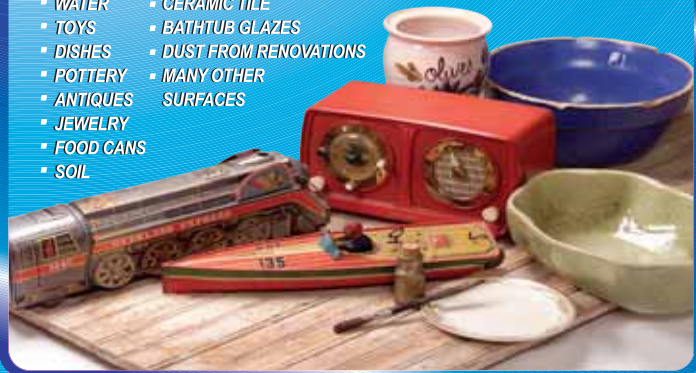
24 TESTS INCLUDED

EASY TO USE

TEST MOST SURFACES FOR LEAD!

QUICKLY AND EASILY TEST:

- PAINT
- WATER
- TOYS
- DISHES
- POTTERY
- ANTIQUES
- JEWELRY
- FOOD CANS
- SOIL
- PLUMBING
- CERAMIC TILE
- BATHTUB GLAZES
- DUST FROM RENOVATIONS
- MANY OTHER SURFACES



WARNING: CONTAINS A PRODUCT THAT MAY BE HARMFUL. READ WARNINGS IN INSTRUCTION MANUAL.

PATENT # 1,256,782



PREMIUM LEAD TEST KIT



This kit easily checks for poisonous lead on most surfaces including: dishes, paint, dust, toys, food cans, mini-blinds, plumbing, water, and other items. Patented leach method determines the approximate lead release of the sample. This kit is for household use only and not intended to replace testing by an accredited laboratory.

Contents: (1) Instruction Manual, (1) Indicator Solution Vial, (12) Swabs, (1) Test Tube
Cut swab sticks in half with scissors to get 24 swabs tips.

DIRECTIONS FOR USE: RAPID TEST INSTRUCTIONS

Use this method to quickly test for surface lead on: painted surfaces, toys, dishes, fine china, pottery, ceramic ware, mini-blinds, baby bibs, childrens lunch boxes, bathtub glazes, antiques, food can seams, solder joints, circuit boards, lead foil, pet toys/food bowls and ceramic tile. **AVOID CONTACT ON BARE METAL OR BARE WOOD SURFACES** as these materials may produce a color which is indistinguishable from the color produced by lead. For best results, consult our Patented Leach Method for testing all other items/surfaces.

- CLEAN AREA:** Clean the area of any dust or dirt. (to test paint, scrape or score the surface with a sharp knife to penetrate and expose all inner layers.) Perform all testing in a well ventilated area, outdoors, or bathroom if possible.
- ACTIVATE A SWAB TIP** by dipping it into the Indicator Solution.
- DAB:** Very gently dab the surface to be tested with the cotton swab tip for about 30 seconds. If the surface or swab tip turns **YELLOW, BROWN or BLACK**, lead is present. The test is negative if no color change is observed. Any other color produced by the test is not lead.

Resulting swab sticks may be safely disposed of by rinsing under cold tap water, then place in your normal garbage. Wash all surfaces/items with soap & water after testing.

***READ ENCLOSED INSTRUCTION MANUAL. KEEP OUT OF REACH OF CHILDREN.**



ABOTEX ENTERPRISES LIMITED

Ontario, Canada, N0M 1T0
Website: www.leadinspector.com
Toll Free: 1-800-268-LEAD

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PATENT # 1,256,782



LEAD TEST KIT

PLEASE READ INSTRUCTIONS CAREFULLY BEFORE USE!

DIRECTIONS FOR USE:

- This lead test kit utilizes two different methods for testing:
- 1) **'Rapid Method'** gives you qualitative 'yes or no' results
 - 2) **'Patented Leach Method'** gives you semi quantitative results which indicate the approximate lead release in the sample

TESTING PRECAUTIONS:

Perform all testing in a well ventilated area@outdoors or washroom, if possible
Avoid contact with Indicator Solution
Wash hands with soap & water after handling items which have tested positive for lead

Note: Any clear vinegar may be used for all tests.

CAUTION: MAY IRRITATE EYES AND SKIN.

Do not mix with strong acids. Do not swallow. Do not get in eyes or on skin. Do not breathe fumes. KEEP OUT OF REACH OF CHILDREN. FIRST AID TREATMENT: Contains sodium sulfuret. If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting. If in eyes, rinse well with water for at least 15 minutes. If on skin, rinse well with water.

DETERMINE THE BEST TYPE OF TESTING FOR THE SAMPLES YOU WISH TO TEST:

RAPID METHOD INSTRUCTIONS:

Use this method to quickly test for surface lead on: painted surfaces, dishes, fine china, pottery, ceramic ware, mini blinds, baby bibs, childrens lunch boxes, toys, bathtub glazes, antiques, food can seams, solder joints, circuit boards, lead foil and ceramic tile. **DO NOT USE DIRECTLY ON BARE METAL OR WOOD SURFACES** as these materials may produce a color which is indistinguishable from the color produced by lead. For best results, consult our Patented Leach Method for testing all other items/surfaces.

← See previous panel for Rapid Test Instructions.

PATENTED LEACH METHOD INSTRUCTIONS:

Use this method for sensitive testing of: dishes, pottery, ceramic ware, fine china, glassware, multi layered or dark colored paint / paint chips, soil, play sand, dust samples, jewelry, candle wicks and any other materials.

- 1) You must first prepare your samples. See 'SAMPLE PREPARATION' procedures noted on reverse. Then test samples as follows:
 - 2) After allowing to stand in vinegar for at least 4 hours, fill the supplied plastic test tube about 1/8 to 1/4 full with the test vinegar.
 - 3) Activate a swab tip by dipping it into the Indicator Solution.
 - 4) Place activated swab tip into the plastic test tube containing the test vinegar. Replace cap and invert the tube once to mix. (Use in a well ventilated area, if possible). If after about 60-90 seconds:
 - a) the resulting vinegar solution and swab tip remains clear or turns milky (cloudy) white, the item is safe from leachable lead.
 - b) if the resulting vinegar solution or swab tip turns even slightly **YELLOW, BROWN or BLACK in color, the item contains leachable lead***. Any other color produced in the test is not lead.
- In general, the darker the color produced, the higher the concentration of leachable lead (see chart below). See limitation in Part N and guidelines in Part O (over). Note that the lower detectable limit of the kit is 1 ppm lead (very faint yellow tint).
- 5) The resulting test solution may be safely disposed of by flushing down the sink with cold tap water. Rinse the test tube & cap well with cold tap water. You are now ready for further testing. Drying of tube is not necessary. Wash all surfaces/items with soap & water after testing.

Resultant Color Produced

Approx. Lead Release in parts per million (ppm) of the sample.
PATENT #1,256,782

Faint Yellowish Tint	1-3 ppm
Light Brown	5 ppm
Medium Brown	10 ppm
Dark Brown	25 ppm
Black	over 50 ppm

SAMPLE PREPARATION

Follow instructions below to prepare samples for testing:

A: POTTERY, DISHES, FINE CHINA, AND CERAMIC WARE

B: PAINT CHIPS

C: SOIL, PLAY SAND

D: WATER

E: JEWELRY, CUTLERY, CANDLE WICKS

F: SOLDER JOINTS, CIRCUIT BOARDS, FOOD CAN SEAMS

G: DUST WIPE TEST

H: LEAD FOILS

I: MINI BLINDS

J: MEXICAN CANDY

K: MAKE UP

L: TOYS, CHILDREN'S LUNCH BOXES

M: ANY OTHER ITEMS YOU WISH TO TEST

A: POTTERY, DISHES, FINE CHINA, AND CERAMIC WARE (Includes coffee mugs, tea cups, plates, bowls, pitchers, lead crystal containers, glassware etc.)

1) Wash, rinse and dry the item you wish to test.

2) Fill the item with white vinegar to cover the food contact surface. Fill to maximum capacity as a defective glaze may be localized. Be sure to cover all decals and any coloration. Only one item of a set (plate, saucer, cup etc.) needs to be tested. Note that vinegar may discolor some decals. You can test the back of the item first (with vinegar) to see if any reaction occurs.

3) Allow to stand uncovered for a minimum of 4 hours (24 hours for government regulation test, see part O).

4) Test as noted in PATENTED LEACH METHOD INSTRUCTIONS above.

This method is excellent for detecting very low levels of lead in dinnerware.

B: PAINT CHIPS (all painted surfaces including multi layered paints on toys, furniture, cribs, antiques etc.)

1) Place some paint scrapings or chips that you wish to test into a small, lead free container (plastic or glass). You can get a good paint sample from under a window sill, base trim, underneath furniture, antiques, and at the base of toys etc. Using a knife, gently scrape the test area to get all layers of paint.

Avoid removing any of the 'base' substrate like metal or wood (drywall o.k.) as these materials may interfere with the test results.

2) Add white vinegar to slightly cover the paint chips.

3) Allow to stand uncovered for a minimum of 4 hours (preferably 24 hrs).

4) Test samples as noted in PATENTED LEACH METHOD INSTRUCTIONS above.

This test procedure is superior to the Rapid Test Instructions when testing dark colored paints (ie. brown or black), as the color of paint may obscure the reading on the swab tip. Avoid contact with bare wood surfaces as the solution may react with wood fibers, producing a black discoloration that is indistinguishable from a positive test for lead. Many house paints (interior & exterior) contained lead until 1978: especially white & pastel colors: as much as 50% by weight. If you are concerned about a negative result on a house paint sample that dates prior to 1979, submit a sample to an accredited analytical laboratory for further investigation

C: SOIL / SAND (Exterior ground soils, play sand)

1) Obtain a representative sample of soil from the area you wish to test (scrape the top 1/8" to 1/4" off of the ground surface and mix well).

2) Transfer 1/2 teaspoon (2.5ml) of soil (about a thimble full) into a glass measuring cup (or a lead free container plastic or glass) and then add 125 ml (1/2 cup) of white vinegar.

3) Allow to stand uncovered for a minimum of 4 hours (preferably 24 hrs).

4) Test samples as noted in PATENTED LEACH METHOD INSTRUCTIONS above.

The dilution factor for the above test procedure is 50:1. Therefore multiplying the lead release result obtained by 50 will give approx. lead release in parts per million (ppm) in soil sample. Follow the same procedure above to test play sand.

D: WATER

1) Fill the supplied test tube about one quarter (1/4) full with a sample of water that you wish to test. To get a good sample of potable water, allow tap water to sit in the plumbing pipes overnight or over the weekend. Fill a plastic pitcher from the cold water tap first thing in the morning. This will give you the worse case scenario for dissolved lead in your water supply plumbing.

2: Activate a swab tip by dipping it into the Indicator Solution.

3: Place activated swab tip into the water sample. Replace cap and invert the tube once to mix. (Use in a well ventilated area, if possible). If the resulting water solution turns even slightly YELLOW, BROWN or BLACK in color, the sample contains leachable lead*. Compare the resultant color produced to the chart as denoted in the PATENTED LEACH METHOD INSTRUCTIONS above. The test is negative if no color change is observed. Note: Although the kit will not detect sub micro levels of lead in parts per billion, this procedure will alert users to high levels of lead which require immediate action. If a positive result for potable water is noted, run taps for 30 seconds or until cold, before using water to drink or cook. Consult a deleading specialist or your local Health Department.

E: JEWELRY (children's rings, bracelets, trinkets, medallions etc.)

CUTLERY (includes spoons, forks, knives etc.)

CANDLE WICKS (1/2" to 1" long remove as much wax as possible)

1) Place the item that you wish to test into a small lead free container (plastic or glass will do).

2) Add white vinegar to cover part (or all) of item.

3) Allow to stand uncovered for a minimum of 4 hours (preferably 24 hrs).

4) Test samples as noted in PATENTED LEACH METHOD INSTRUCTIONS above.

If you get a positive test, do not use these items that will be in contact with food, drink or children.

F: SOLDER JOINTS (includes plumbing materials, food can seams & bath tub glazes, electronic assemblies, circuit boards).

Use the Rapid Method Instructions. Note: Hold activated swab tip on solder surface only and rotate in a circular motion. Avoid swab tip contact with adjoining surfaces of copper as a metallic film could deposit and give a false positive reading. For food can seams, gently rub tip along the seam. For bath tub glazes, simply use the Rapid Method Instructions.

Avoid use on brass fixtures as copper (used in brass) will produce a metallic film that is indistinguishable from the color produced by lead. The kit will not work (detect lead) on virgin lead solder (on a roll) due to the unavailability of free lead on the surface.

G: DUST WIPE TEST (from construction or renovation areas)

1) Dampen a swab tip with water. Use a damp swab to slowly collect a sample of dust from the area to be tested.

2) Place the swab into a small lead free container (plastic or glass will do.)

3) Add white vinegar to slightly cover the swab tip.

4) Allow to stand uncovered for a minimum of 4 hours (preferably 24 hrs).

5) Test samples as noted in PATENTED LEACH METHOD INSTRUCTIONS above.

If you get a positive response, lead is present and the area should be thoroughly cleaned with a damp mop/rag soaked in Trisodium Phosphate (TSP) cleaner, available at your local hardware store. You can also vacuum with a High Efficiency Particle Accumulator (HEPA) filter which may be bought/or rented from a "Lead Abatement & Removal" company. See your Yellow Pages under "Lead Abatement & Removal".

H: LEAD FOILS (wine bottle wrap)

1) A white powder on the foil is a good indication that it contains lead. Use the Rapid Method Instructions. Avoid swab tip contact with the cork as the solution may react with cork giving a false positive reading. If you get a positive result, remove foil and wipe area with vinegar before uncorking bottle.

I: MINI BLINDS (1" PVC plastic type)

1) PVC mini blinds produced overseas have been found to contain high levels of lead in the formulation. To test mini blinds, use the Rapid Method Instructions.

J: MEXICAN CANDY (Including candy wrappers) - Please note that this method works best on low colored (or no color) candies, as the dyes in colored candy may interfere with the test results.

1) Crush a piece of low colored (or no color) candy into small pieces or powder.

2) Add white vinegar to cover part (of all) of sample.

3) Allow to stand uncovered for a minimum of 4 hours (preferably 24 hrs).

4) Test samples as noted in PATENTED LEACH METHOD INSTRUCTIONS above.

To test candy wrapper, add vinegar to cover the wrapper and test as noted above.

K: MAKE UP (lipstick, mascara, etc.)

1) Cut out a 1" square piece of white paper.

2) Apply make up to both sides of white paper.

3) Roll up the paper and place into a small lead free container (plastic or glass will do).

4) Add white vinegar to cover part (or all) of item.

5) Allow to stand uncovered for a minimum of 4 hours (preferably 24 hrs).

6) Test samples as noted in PATENTED LEACH METHOD INSTRUCTIONS above.

L: PLASTIC TOYS & CHILDREN'S LUNCH BOXES

Test these items as noted in Rapid Method Instructions above. Test the inside plastic/vinyl material of childrens lunch boxes that would come in contact with food surfaces.

M: ALL OTHER ITEMS YOU WISH TO TEST

1) Place the item that you wish to test into a small lead free container (glass or plastic will do).

2) Add white vinegar to cover part (or all) of item.

3) Allow to stand uncovered for a minimum of 4 hours (preferably 24 hrs).

4) Test samples as noted in PATENTED LEACH METHOD INSTRUCTIONS above.

If item is too big (or impractical) to submerge in vinegar, simply rinse the item repeatedly with vinegar, then test the vinegar using PATENTED LEACH METHOD INSTRUCTIONS above.

N: INTERFERENCE: *Disclaimer: 'other toxic metals'. The test will also give a positive response (indistinguishable from lead) if copper or bismuth is present. This is of little concern as these elements are not usually present in the items that can be tested with the kit. If the items were properly manufactured, they would not release these toxic metals in amounts that would give a positive response using this testing procedure.

O: GOVERNMENT LEAD GUIDELINES/ACTION LEVELS & REGULATIONS 2007: USA (EPA & HUD) - Levels may vary by state

Glazed Ceramics & Glassware: (ppm)	Drinking Water	15 ppb
24 hr. Leach Method)*	Dry Paint	0.5% (5000 ppm)
Flatware / Plates.....	Toys	600 ppm (90 ppm leachable lead)
Small Hollow Ware / Bowls.....	Jewelry ...	600 ppm (proposed level)
Large Hollow Ware / Bowls.....	Soil	400-500 ppm
Cups, Mugs & Pitchers.....	ppm = parts per million, ppb = parts per billion	
0.5	*California Prop 65 levels are lower.	

WARRANTIES

This test kit is not intended to replace a professional inspection by an accredited commercial lead inspector or laboratory. LEAD INSPECTOR will detect high lead levels that exceed government guidelines. No guarantees are intended or implied.

LIABILITY

The manufacturer assumes no liability for the misuse of LEAD INSPECTOR or for the interpretation of the results by the user. This kit is intended for household use only and as a prescreen for lead. If lead contamination is suspected based upon this test, consult a deleading specialist, a professional testing laboratory or your local Health Department.

This product (kit & method) is protected under Patent No. 1,256,782. Other Patents applied for. (2007) **ABOTEX ENTERPRISES LIMITED**, Grand Bend, ON., N0M 1T0. All rights reserved. Lead Inspector is a registered trademark of Abotex Enterprises Limited (Canada & USA). Contact us at: **1-800-268-LEAD** (5323) or online at **www.leadinspector.com**