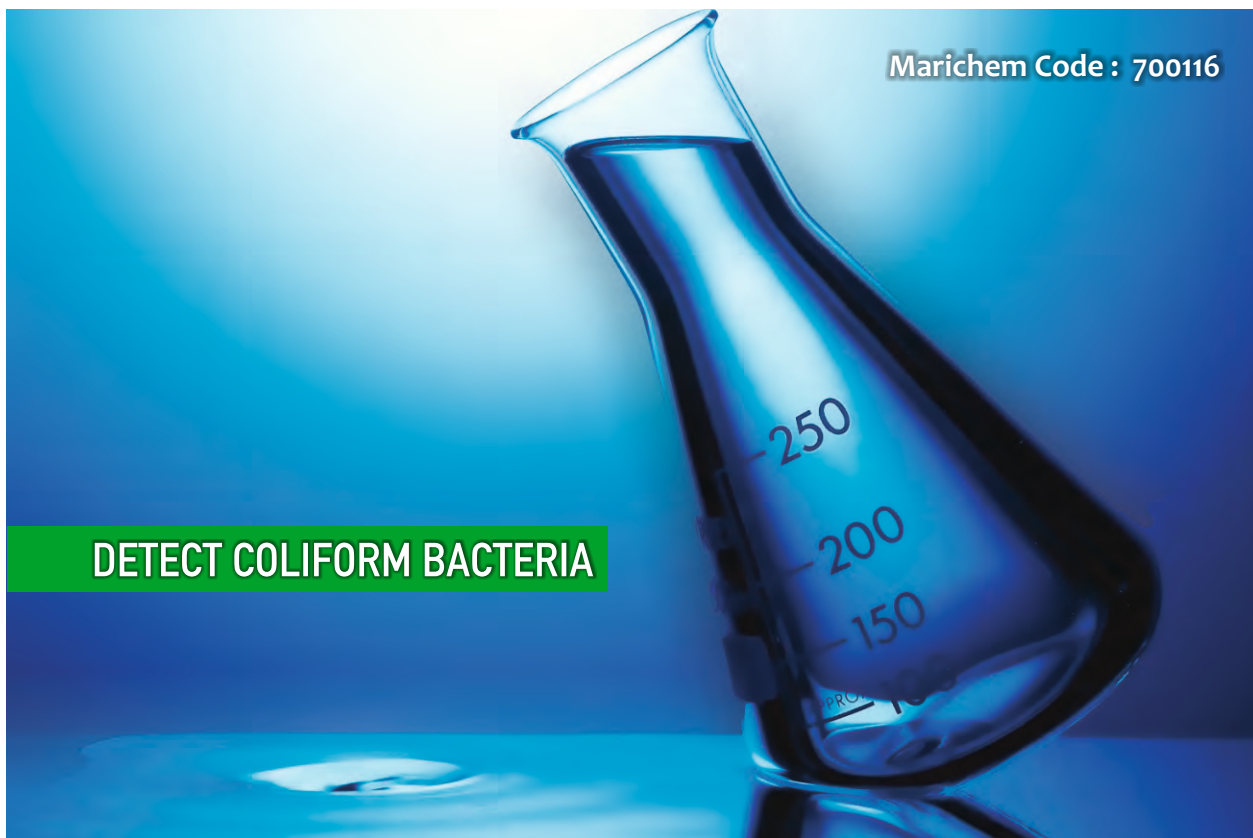


POTABLE
water test kit



Marichem Marigases Water Test Kit contains everything you need to find out simply and accurate if your water contains unsafe or undesirable levels of ten common contaminants. Follow instructions carefully for each test and compare results to the Desired Values.

Drinking water which tests outside the desired values may be dangerous to your health.

Each "set of Test Kit " containing the below quantity/and types of tests that can easily be performed from the vessel's crew :

- 1x Coliform Bacteria Test Vial
- 1x Lead
- 1x Pesticide Test strip
- 1x Nitrate
- 1x Nitrite Test Strip
- 1x ph
- 1x Hardness
- 1x Chlorine Test Strip

- 1x Copper Test Strip
- 1x Iron Test Strip
- 2x Pair of plastic gloves
- 1x Plastic cup
- 1x Log book page
- 1x Instruction card

Before You Begin

- Contents - One Bacteria Test Vial
 - One Lead / Pesticide Test Packet
 - One Nitrate / Nitrite Test Packet
 - One pH / Hardness / Chlorine Test Packet
 - One Copper Test Packet
 - One Iron Test Packet
- Keep tests out of reach of children or pets. Do not ingest anything from this test kit. Do not drink the water samples used for testing. Store and use at room temperature (60-86°F). Do not use on hot water or water containing bleach or detergents. Do not re-use any part of the test kit.
- Do not open packets or vial until you are ready to perform the tests.
- Read and follow all instructions carefully.



Bacteria Test Instructions

- Take out the Bacteria Test vial and set upright on a flat surface.
- Collect water sample or turn on tap to a very slow stream.
- Carefully twist off cap and fill vial to 1/2 inch below the top (to 5 ml line). DO NOT OVERFILL and DO NOT SPILL the bacterial growth powder in the vial.
- Replace the cap and twist on tightly. Shake the vial vigorously for 20 seconds.
- Place the capped vial upright in a warm area (70-90°F) where it cannot be disturbed for 48 hrs.
- After 48 hrs., observe the color of the liquid **without** opening the vial:
 - Purple Color: Negative Result** (No bacteria were detected)
 - Yellow Color: Positive Result** (It is highly likely that potentially harmful bacteria were detected)
- For positive results, add bleach to the sample before pouring down the toilet, then wash hands carefully. Negative samples may be poured directly into the toilet. Discard vial in the trash.



Copper Test Instructions

- Collect a fresh water sample.
- Open **Watersafe**® test kit and remove the Copper Test Strip from the foil packet.
- Immerse the reagent pad into water sample for 30 seconds, waving in a gentle back and forth motion.
- Remove the strip and shake once to remove excess water.
- Wait 2 minutes.
- Match result to the color chart below.

Total Copper



Iron Test Instructions

- Collect a fresh water sample.
- Open **Watersafe**® test kit and remove the Iron Test Strip from the foil packet.
- Immerse the reagent pad into water sample for 5 seconds, waving in a gentle back and forth motion.
- Remove the strip and shake once to remove excess water.
- Wait 2 minutes.
- Match result to the color chart below.

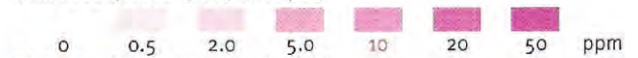
Total Iron



Nitrate / Nitrite Test Instructions

- Carefully open **Nitrate / Nitrite Test** packet and take out test strip.
- Immerse the reagent pads into water sample for 2 seconds, remove, after 1 minute match colors to chart below.
- Colors are stable for 1 minute.

Total Nitrate/Nitrite (as N) (end pad)



Nitrite (as N) (pad nearest handle)



pH / Hardness / Chlorine Test Instructions

- Carefully open **pH / Hardness / Chlorine Test** packet and take out test strip.
- Immerse the reagent pads into water sample and remove immediately. Hold the strip level for 15 seconds.
- Match pH, Total Hardness and Total Chlorine pads (in that order) to the color chart.

pH (end pad)



LR Total Hardness (middle pad)



Total Chlorine (pad nearest handle)



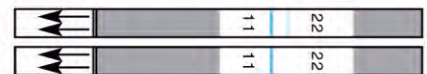
Lead / Pesticide Test Instructions

The **Watersafe**® **Lead Test** can detect dissolved lead at levels below the EPA Action level of 15 parts per billion (ppb). The **Watersafe**® **Pesticide Test** detects two of the most common pesticides used in the US at or below the EPA Maximum Contaminant Level (atrazine - 3 ppb, and simazine - 4 ppb).

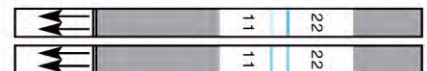
- Open **Lead / Pesticide** packet and take out all contents. The packet contains a test vial, a dropper pipette, two **Watersafe**® test strips, and a desiccant (to be discarded).
- Using dropper, place **exactly TWO dropper-fuls** of water sample into test vial. To pick up sample, tightly squeeze the bulb at the end of the dropper and place the open end into water sample. Release the bulb to pick up sample, then squeeze again to expel sample into vial.
- Swirl vial gently for several seconds. Place on a flat surface.
- Place both test strips into the test vial, with arrows pointing **DOWN**.
- Wait 10 minutes. Do not disturb strips or vial during this time. Blue lines will appear on the strips.
- Take the strips out of the vial and lay them on a flat surface with the arrows pointing to the **LEFT**. Read **RESULTS**.

Negative: LEFT line (next to number 1) is darker than the RIGHT line (next to number 2).

If you only see one line next to number 1, the test is negative.



Positive: RIGHT line (next to number 2) is darker than LEFT line (next to number 1), or lines are equally dark (Both LEFT and RIGHT lines are equally dark)



- Note: If no lines appear, or both lines are very light, the test did not run properly and the result is not valid.

If a test strip shows a positive result, your water sample may contain lead or pesticides at a toxic level.

LOG BOOK for MARICHEM POTABLE WATER TEST KIT

| PLACE | | | | | |
|-----------------|------------------------------|----------------|---------|-------|-------|
| DATE | | | | | |
| TEST CARRIED BY | | | | | |
| SAMPLING FROM | | | | | |
| TEST TYPE | | Desired Values | Results | PASS* | FAIL* |
| B | 1. Coliform Bacteria Test | None | | | |
| Pb | 2. Lead | <15 ppb | | | |
| Pe | 3a Pesticide Test (atrazine) | < 3 ppb | | | |
| Pe | 3b Pesticide Test (simazine) | < 4 ppb | | | |
| N | 4. Total Nitrate/Nitrate | <10.0 ppm | | | |
| N | 5. Nitrite Test | <1.0 ppm | | | |
| Cl | 6. Chlorine Test | < 4 ppm | | | |
| Ph | 7. PH | 6.5 to 8.5 | | | |
| Hd | 8. Hardness | <=100 ppm | | | |
| Cu | 9. Copper Test | 1.3 ppm | | | |
| Fe | 10. Iron Test | 0.3 ppm | | | |
| REMARKS | | | | | |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| Signature | | | | | |

* According to the results tick with ✓ at the right cell (pass or fail)

