Pentair R161025

Pentair OTO Test Solution for Chlorine/Bromine, 1 oz. (Model R161025)

Instruction Manual

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Introduction

This manual provides instructions for the safe and effective use of the Pentair OTO Test Solution, a reagent designed for testing chlorine and bromine levels in water. This 1-ounce solution bottle is a replacement for Solution A in compatible test kits.

Safety Information

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE CANCER.
Precautionary Measures:

- Do not handle until all warnings and instructions have been read and understood.
- Do not get in eyes, on skin, or on clothing.
- Wash thoroughly after handling.
- Wear protective gloves, protective clothing, eye protection, and face protection.
- Keep out of the reach of children.
- Keep container tightly closed in a cool, dry place, out of direct sunlight.

In case of contact, immediately flush affected areas with plenty of water for at least 15 minutes. Seek immediate medical attention if irritation persists or if swallowed.

Setup

The Pentair OTO Test Solution is a ready-to-use reagent. No assembly or preparation is required for the solution itself. Ensure you have a compatible water test kit that utilizes OTO (Orthotolidine) solution for chlorine/bromine testing.



Image: Front view of the Pentair OTO Test Solution bottle. The label clearly displays "PENTAIR RAINBOW™ SOLUTION OTO 1 CHLORINE/BROMINE TEST" along with hazard pictograms and safety warnings.

Before first use, inspect the bottle for any signs of damage or leakage. Ensure the cap is securely fastened. Store the solution according to the safety guidelines provided.

Operating Instructions

This OTO Test Solution is used to determine the total chlorine or bromine levels in pool or spa water. Always refer to the specific instructions provided with your water test kit for accurate procedures, as methods may vary slightly between kits.

General Testing Procedure:

1. **Collect Water Sample:** Fill the designated test cell of your test kit with water from your pool or spa to the indicated fill line. Ensure the sample is taken from an appropriate depth, away from skimmers or return jets.
2. **Add Reagent:** Carefully add the specified number of drops of Pentair OTO Test Solution (typically 5 drops) into the water sample in the test cell. Avoid touching the dropper to the water sample to prevent contamination.
3. **Mix Sample:** Cap the test cell and gently invert it several times to mix the solution with the water sample. Do not shake vigorously.
4. **Observe Color Change:** Allow the sample to sit for the time specified by your test kit (usually 10-30 seconds). The water sample will change color, typically to shades of yellow.
5. **Compare Results:** Compare the color of the treated water sample to the color chart provided with your test kit. Match the color to the corresponding chlorine or bromine level.
6. **Record Results:** Note down the measured levels for proper water chemistry management.

Note: OTO solution measures total halogen (chlorine or bromine). For free chlorine readings, a DPD test kit is typically required.

Maintenance

Proper storage and handling are crucial for maintaining the accuracy and shelf life of the Pentair OTO Test Solution.

- **Storage:** Store the bottle in a cool, dry, and dark place, away from direct sunlight and extreme temperatures. Ensure the cap is tightly sealed after each use.
- **Expiration:** Check the expiration date printed on the bottle. Expired reagents can provide inaccurate test results. Replace the solution before its expiration date.
- **Contamination:** Avoid cross-contamination. Do not return unused solution to the bottle. Do not allow the dropper to touch the water sample or any other surfaces.
- **Disposal:** Dispose of used solution and empty bottles according to local environmental regulations. Do not pour down drains.

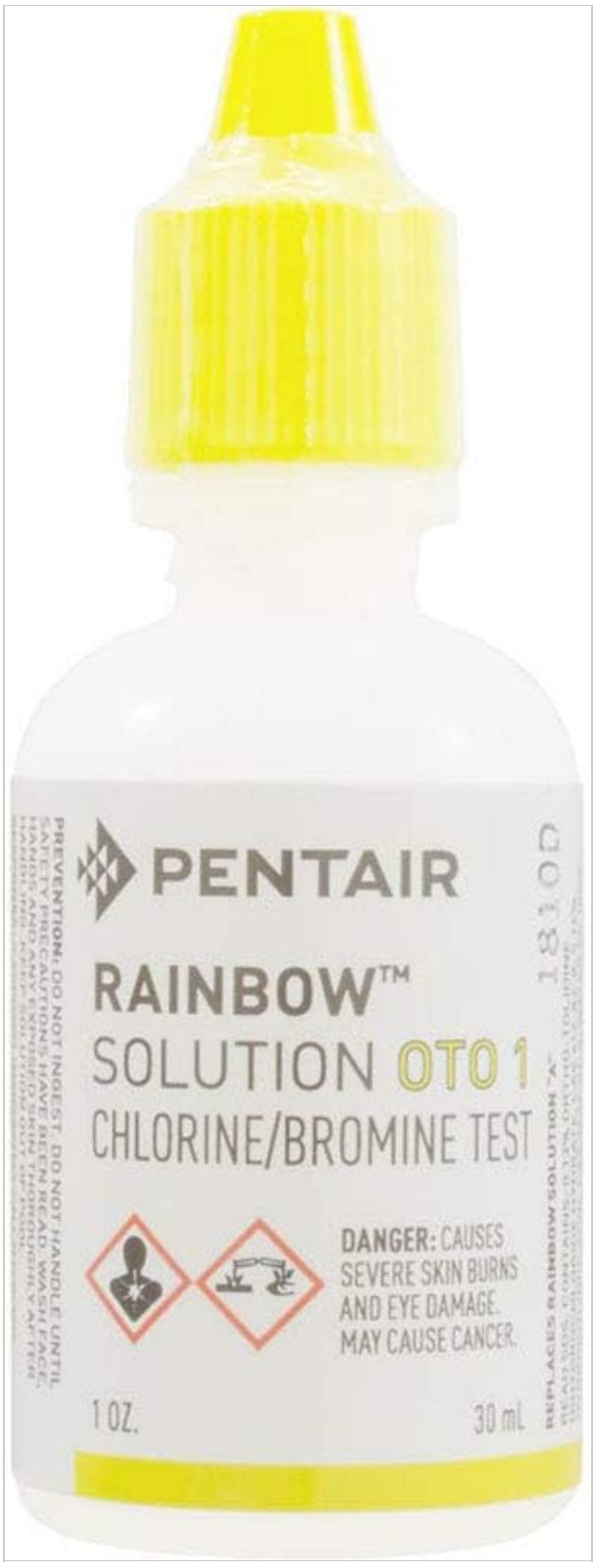


Image: Back view of the Pentair OTO Test Solution bottle. This side typically contains the UPC barcode, batch number, and manufacturer details, along with additional warnings.

Troubleshooting

Issue	Possible Cause	Solution

Issue	Possible Cause	Solution
No color change or faint color change	• Expired reagent • Insufficient drops of solution • Very low chlorine/bromine levels • Contaminated sample	• Check expiration date; replace if expired. • Ensure correct number of drops are added. • Confirm water chemistry with another method if possible. • Retest with a fresh sample and clean test cell.
Inconsistent results	• Improper mixing • Contaminated test cell or sample • Solution exposed to sunlight/heat • Expired reagent	• Gently invert test cell to mix. • Clean test cell thoroughly before each use. • Store solution properly. • Check expiration date; replace if expired.
Solution appears discolored in bottle	• Contamination • Exposure to light or heat • Expired solution	• Discard and replace with a new bottle. • Ensure proper storage conditions.

Specifications

- **Product Name:** OTO Test Solution (Orthotolidine)
- **Model Number:** R161025 (Replaces Solution A)
- **Brand:** Pentair
- **Purpose:** Measures total chlorine and bromine levels
- **Unit Count:** 1.0 Fluid Ounces (approx. 30 mL)
- **Item Weight:** 0.01 Ounces (approx. 0.28 grams)
- **UPC:** 788379003050
- **ASIN:** B0002Z0MPG
- **Manufacturer:** Pentair

Warranty & Support

Pentair test solutions are consumable reagents and typically do not carry an extended warranty beyond ensuring they are delivered in good condition and are not expired upon receipt. For specific warranty details or to report issues with product quality upon delivery, please contact Pentair customer support directly.

Customer Support:

For technical assistance, product inquiries, or support, please visit the official Pentair website or contact their customer service department.

- **Pentair Official Website:** www.pentair.com
- **Contact Information:** Refer to the Pentair website for the most current contact details, including phone numbers and support forms.

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