



Lead Ions (Pb+2) Rapid Test Strips (Water) (DTS802L)

This product is for research use only and is not intended for diagnostic use.

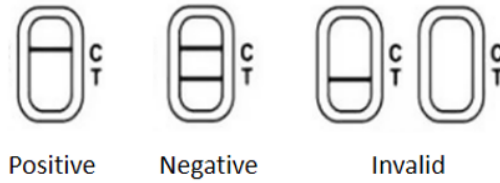
PRODUCT INFORMATION

Size	25T
Intended Use	The Pb+2 (Lead Ions) test strip is a lateral flow chromatographic immunoassay for the detection of Pb+2 in water sample.
General Description	<p>Lead contamination is a serious worldwide environmental problem. As it is difficult to detoxify by chemical or biological methods, gradual lead ion accumulation in the nervous and cardiovascular systems of the human body can subsequently cause serious diseases. In the U.S., the National Primary Drinking Water Regulations (NPDWRs) limit for the action level of lead ion contaminants in drinking water is 15 ppb. Long-term health consequences of drinking lead-contaminated water include kidney problems and high blood pressure for adults, and the physical and mental development delays in infants and children. Lead contamination in water has attracted significant attention around the World, and fast and sensitive methods for monitoring water quality are for protecting human and animal health in great demand. The lateral flow assay (LFA) has emerged as a powerful analysis platform for detecting various analytes including small molecules, such as pesticides, biotoxins and heavy metals, due to its speed, simplicity and low-cost characteristics.</p>
Reagents And Materials Provided	Lead ions test cassettes, 25 cassettes/kit, every aluminum foil bag contains one test cassette, one tube with lyophilized sample dilutions, one dropper and one desiccant.
Storage	The kit should be stored at 4-30°C for 2 years.
Assay Procedure	<ol style="list-style-type: none"> 1. Take 6-7 drops (30μL per drop, about 200μL water) of water sample into the tube of lyophilized sample dilutions and then mix well. 2. Take 5 drops of treated tap water into the test strip. 3. Let the test strip stand for 10 minutes and observe the result.
Interpretation Of Results	Negative (-): Both clear C band and T band appears. It means that the level of lead ion

contaminants in the water is lower than 15 ppb.

Positive (+): The Presence of C band with no T band. It means that the level of lead ion contaminants in the water is higher than 15 ppb.

Invalid: No colored band appears in C zone, no matter whether T band appears. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for an invalid result. Review the procedure and repeat the test with a new test device.



Precautions

1. Please test according to the assay steps. Don't touch the white membrane surface in the center of the test card. Avoid the sunlight when testing.
 2. Do not reuse the test kit.
 3. Do not mix components from different lot numbers.
 4. The kit is for research use only.
 5. The test result is only for reference. Please confirm according to the relative standard methods of country.
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