

Kit Information

From marketing reagents worldwide, we've learned that our customers come to us for three major reasons:

- Technical support expertise in integrating reagents in experiments
- Troubleshooting problems with reagent use.
- Any rapid, reliable simple technique to check the functionality of the reagent.

To ensure our ongoing technical support and quality products, we now present a Kit to detect Ricin and Abrin *instantly* using rabbit antibodies in an immuno-sandwich format. While we cannot guarantee a perfect solution, the *InstantChek*TM kit will give at least a quick assessment if the sample at hand contains toxin as a screening test.

Background Information

*InstantChek*TM Assay technique is part of *InstantChek*TM Technology which is composed of assay tests and can be measured with the Digital Image Analyzer (patent issued).

Package Contents

Solutions and Materials	Quantity/Kit
Diluent (for Reconstitution of Gold)	5ml
Wash Buffer	10ml
PreWet (also called extraction solution)	15ml
WBT (Filter unit)	10
Assay Devices	10x Twin Units
Colloidal Gold Conjugates with Rabbit anti-RCA-I & II and Rabbit anti-Abrin antibody and galactosyl protein.	4 units
Transfer pipettes	24 units

Reconstitute Gold and WBT Usage Instructions

PREPARE REAGENTS

Add 0.5ml or 20 drops Gold DILUENT to 1 Vial Gold Conjugate. Shake intermittently for 1 minute before use.

One Vial is sufficient for 5 tests.

Usage

- One device per test.
- Write sample or identification number on device.
- Use one transfer pipette for each sample.



Gold Stability after Reconstituted

25 days at 4-8°C

SAMPLE PREPARATION USING WBT



1. Hold **WBT TUBE** with opening facing upward.

Add 1ml of **WBT BUFFER** (also known as PREWET)

2. Add 2 drops (80µl) of SAMPLE using a transfer or auto-pipette. For solids, transfer enough powder to cover 1/4 of the tube.
3. Cap tube tightly with top unit with "EY" mark covered.

Vortex content well and let it sit for 5 min prior to use.

ASSAY PROCEDURE

0 sec



60 sec



1. Add 40 microliters (about 1 drop) of PREWET solution to the device.
2. Add 100 micoliters (about 3 drops) from **WBT TUBE** to the center of device Allow sample to soak in. Discard WBT properly.

Do not wait between steps when performing assay

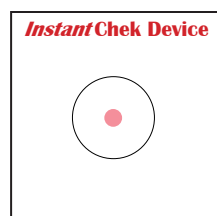
3. Add 2 drops (80µl) of **LIQUID GOLD**. Allow to soak in, then Proceed to step 4 with minimal delay.
4. Add 4 drops of **WASH BUFFER**. Allow buffer to soak in.

Read Result Immediately.

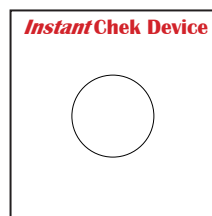
Sample Only

PRECAUTIONS AND SAFETY INFORMATION

CAUTION: Other plant proteins may share the same epitope of these two toxins. So far, we have not discovered one. Please inquire with tech support (support@eylabs.com) to identify that a positive response of unknown sample has carbohydrate binding functionality as lectin. Wear gloves and dispose the toxin or positive sample in 20% Bleach solution.



Presumptive
Positive Result



Presumptive
Negative Result

DETECTION LIMITATIONS:

1-10 ug/ml of the pure Ricin/Abrin in the prewet buffer. Possibly lower.

EXAMPLE POWDER EXTRACT:

To detect positive response, use 1/2 of a grounded castro bean with protocol.

The InstantChek™ Kit for Detecting Ricin or Abrin

Assessment of Toxin functionality in minutes, not hours.

Catalog No.: IC-RA-003-10

Lot Number: 240716

Expiration Date: 2007 JUL

Storage Conditions: Refrigerate all reagents. Keep InstantChek™ devices at room temperature.

Operation Principle:

InstantChek Technique is a flow-through immunochromatographic assay technique.

Antigen Immobilized on Device:

Rabbit anti-RCA I & II and Rabbit anti-Abrin at the center of the membrane.

Sample & Reagent Preparation for assay:

Liquid Sample: Use 100ul supernatent solution of a centrifuge extract of powder or a clear liquid extraction.

Solid Sample:

1. Using PREWET, do an extraction of the powder.
2. Filter the suspect ricin/abrin material through provided WBT per instruction, see next page.
3. Use 100 microliters or 4 drops of the filtrate from the WBT and add it to the centerwell of the device and perform the rest of the following procedure.

Procedure: (Illustrations on next page)

1. Add 1 drop of the prewet to the center of the **InstantChek™** device membrane slowly. Let each drop absorb completely before adding more.
2. Add 200 microliters of the premixed sample (The premixed sample is composed of 100ul sample solution with 100ul of prewet) to the center of the **InstantChek™** device membrane slowly. Let each drop absorb completely before adding more.
3. Add 80 microliters of Gold Conjugate (Rabbit anti Ricin/Abrin Colloidal Gold) to device membrane slowly. Let each drop absorb completely before adding more.
4. Add 4 drops Wash solution. Let each drop absorb completely before adding more.
5. Read Result.

Read Result:

Presumptive Positive Result:

A Pink or Red dot will appear to show immunological functionality.

Presumptive Negative Result:

No dot.

Warning: If high background, sample should pass through WBT filtration or centrifuge. See next page for WBT instructions.

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Sample Only