

Instructions for use InviRapid® Peanut Allergen Ag Test

INVITEK
diagnostics

ALS Life Sciences Portugal, S.A.
Zona Industrial de Tondela, ZIM II, Lote 6,
3460-070 Adiça - Tondela, Portugal

Phone: +351 232 817 817
info@invitek.com
invitek.com

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Σ 20 tests

2 °C 30 °C

RUO

1. Intended use

InviRapid® Peanut Allergen Ag Test is an immuno-chromatographic test for the detection of peanut in food. All reagents required for the test are included in the test kit. Results are interpreted visually. This test is suitable for the detection of unknown ingredient or ambiguous labeling in processed food. InviRapid® Peanut Allergen Ag Test can be used to validate and verify allergen cleaning regimes in manufacturing and analytical environmental. This test is also suitable for quality control in food processing plants specifically with inbound goods, processing stages and final product.

- Detection limit: 1 ppm peanut protein isolate.
- Specificity: No cross-reaction with seafood, casein, soy, gluten, buckwheat, egg or almond.

2. Kit contents

COMPONENTS	QUANTITY
Rapid test strip	20 pouches
Buffer	65 mL, 1 bottle
1.5 mL microcentrifuge tube	20 pcs
4 mL sample tube	20 pcs
Scoop	20 pcs
Dropper	20 pcs
Swabs	20 pcs
Tubes rack	2 pcs
Instruction manual	1 manual

3. Equipment and materials required (not provided)

- 200 µL and 1000 µL micropipette and tips
- Weighing scale
- Grinder or homogenizer
- Vortex mixer (if available)
- Clean water

4. Storage instructions

Reagents should be stored between 2 and 30 °C and may be used until the expiration date shown on the package label. It is not recommended the use of the kit after the expiry date stated on the box. Protect reagents from light exposure to prevent degradation. Do not freeze.

5. Preparation of samples

5.1 For liquid food/drinks:

- Measure 50 µL of sample into a 1.5 mL microcentrifuge tube with 450 µL buffer and mix well.

5.2 For solid food:

- Weigh 0.3 g of sample (finely grinded) into a 4 mL sample tube or fill the sample up with the provided scoop and then level it off.
- Add 3 mL buffer to the 4 mL sample tube.
- Vortex/mix for 30 seconds.
- Leave sample mixture to settle for 1 minute.
- Transfer 500 µL (or 15 drops by dropper) of the sample mixture supernatant into a 1.5 mL microcentrifuge tube.

5.3 Environmental swab test:

- Transfer 500 µL (or 15 drops by dropper) of buffer into a 1.5 mL microcentrifuge tube.

- Wet the cotton swab with clean water.
- Swab a sampling surface area of 100 cm² (recommended) with the pre-wetted cotton swab.
- Place the cotton swab in the 1.5 mL microcentrifuge tube making sure to immerse the cotton swab head in the buffer.
- Gently agitate the cotton swab in the buffer for at least 30 seconds.
- Remove the cotton swab from the 1.5 mL microcentrifuge tube and leave the tube to rest for 1 minute.

6. Test procedure

- Open the aluminum pouch and take out the test strip. (please handle the colored sticker portion only and avoid contact with the reaction zone).
- Insert the test strip into the 1.5 mL microcentrifuge tube.

7. Results and sensitivity

Wait 15 minutes for the results. Please read the results immediately without further manipulation.

7.1 Result analysis:

- Positive result: two colored bands (C and T red test bands) visible within the reaction zone.
- Negative result: one colored band (C red test band) visible within the reaction zone.
- Invalid result: no colored band is visible within the reaction zone or only T red test band; the test is considered invalid. Please retest with a new test strip.

8. Warnings and precautions for users

- InviRapid® products are for food testing, not for human diagnostics use.
- InviRapid® Tests are designed as a one-use test. Please do not re-use test strip.
- InviRapid® Tests are very sensitive to humidity, which could render the test strips useless. Please keep the test strips away from humidity.
- InviRapid® Tests are designed for screening purposes only. If analysis of ingredients is required, please send the sample to your local laboratory for further analysis.
- To ensure test accuracy, please do not use expired test strips or omit weighing samples or operating by micropipettes.
- All samples require dilution with the buffer in this kit. Do not test the sample directly with the test strip.
- Highly concentrated samples and food samples containing high level of polyphenols (e.g. coffee, tea, wine, chocolate etc.), high fat volume (e.g. peanut butter, oil etc.) or heavy food coloring (e.g. soya sauce) will affect the results of the tests.
- If the sample is too viscous or concentrated, it is recommended to increase the dilution factor of the sample with the buffer.
- Please complete the test procedure in 30 minutes to ensure optimum accuracy.
- Time and method of preparing peanuts (e.g. boiling and frying) may affect the detection of peanut allergens. Allergens are easily degraded or undetectable with long cooking times which does not mean that the food samples may not cause peanut allergies.



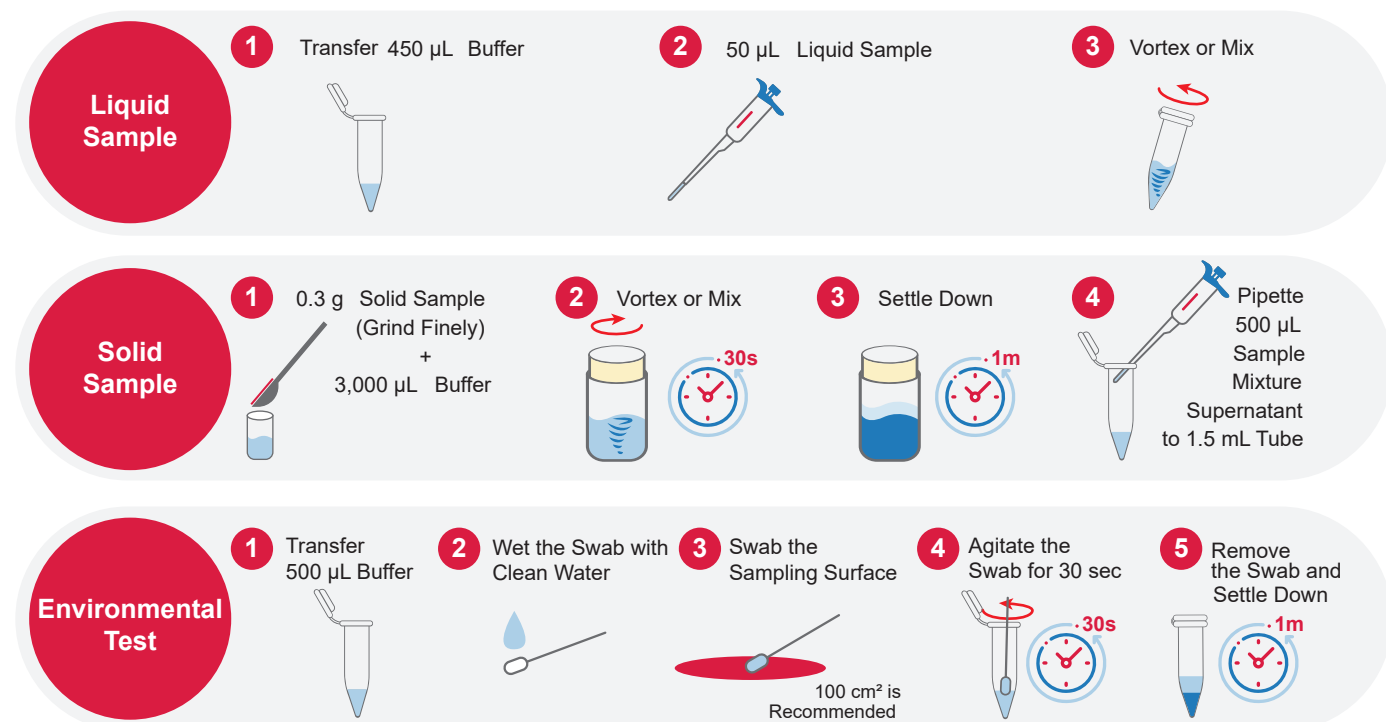
Quick Guide InviRapid® Peanut Allergen Ag Test

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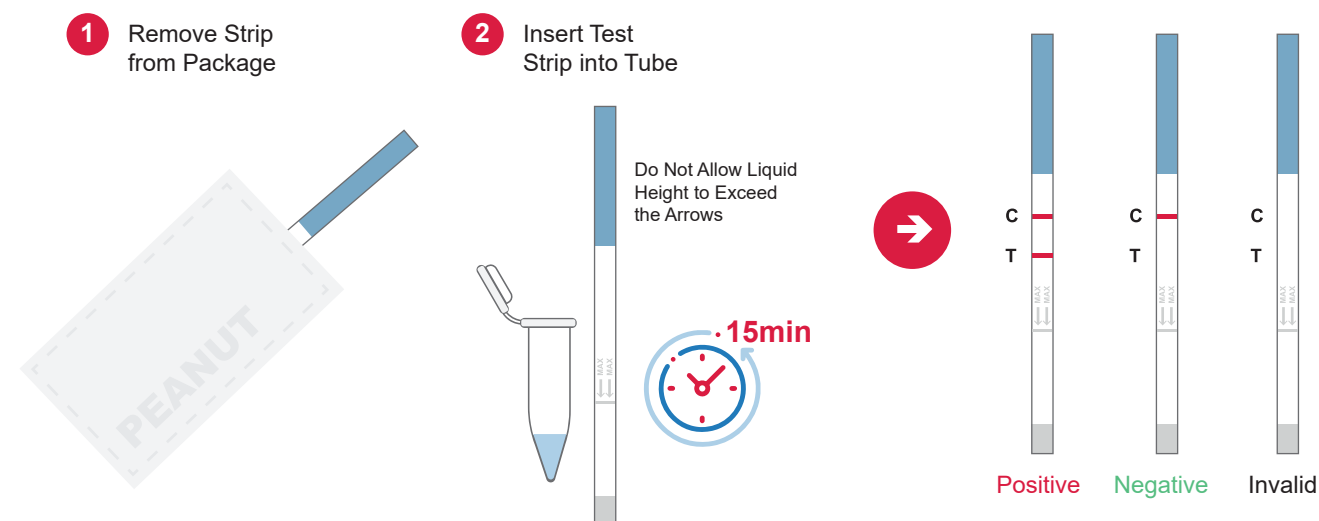
A. Materials Needed

	Liquid Sample	Solid Sample	Environmental Swab Test
4 mL Sample Tube		•	
1.5 mL Microcentrifuge Tube	•	•	•
Micropipette or Droppers	•	•	•
Scoop		•	
Swab (Optional)			•

B. Preparation of Samples



C. Strip Testing and Result Analysis



Positive result: two colored bands (the C and T red test bands) are visible within the reaction zone.

Negative result: one colored band (the C red test band) is visible within the reaction zone.

Invalid result: no colored band and only T red test band is visible within the reaction zone, the test is considered invalid