

Agitest™ Food Allergen Rapid Test Strip Instruction Manual – SESAME

1. Brief Information

Agitest™ Food Allergen Rapid Test - SESAME is an immunochromatographic test for the detection of sesame in food. All reagents required for the test are included in the test kit. Results are interpreted visually. The kit is intended to be used for sesame protein contamination in processed foods. Agitest™ Food Allergen Rapid Test - SESAME can be used with Agitest™ Environmental Swab Kit (Product Number: SR00013220) for the detection of sesame on surface, and thus is appropriate to act as a qualitative analyzing tool for food allergens in environmental cleaning.

*Detection limit:

0.2 mg/kg (ppm) sesame seed.

0.01 mg/kg (ppm) sesame protein isolate.

*Specificity:

No cross-reaction with almond, casein, soy, gluten, buckwheat, peanut, mango and egg.

2. Reagents provided

Each test kit contains

2.1	Rapid test strip	20 pouches
2.2	Buffer	65 mL, 1 bottle
2.3	Instruction manual	1 manual
2.4	Supplies:	
2.4.1	1.5 mL Microcentrifuge tube	20 pcs
2.4.2	4 mL Sample tube	20 pcs
2.4.3	Scoop	20 pcs
2.4.4	Dropper	20 pcs
2.4.5	Tubes rack	2 pcs

3. Equipment/ materials required (Not provided)

- 3.1 20 – 200 µL and 1,000 µL Micropipette (or can be replaced by droppers provided).
- 3.2 Accurate weighing scale.
- 3.3 Grinder or homogenizer.
- 3.4 Timer.
- 3.5 Vortex mixer.
- 3.6 Agitest™ Environmental Swab Kit (Product Number: SR00013220) (20 pieces).
- 3.7 Clean water.

4. Storage instructions

- 4.1 Store the test kit between 2 to 30 degrees Celsius.
- 4.2 Keep away from direct sunlight.
- 4.3 Do not freeze.

5. Warnings and precautions for users

- 5.1 Agitest™ products are for food testing and *in Vitro* diagnostic use only, not for human use.
- 5.2 Agitest™ products contain non-toxic buffers. To ensure test accuracy, please keep bottle upright to prevent leakage.
- 5.3 Agitest™ Rapid Tests are for single use. Please do not re-use test strips.
- 5.4 Please keep the test strips in a low humidity environment. High humidity may lead to invalid results.
- 5.5 Agitest™ Rapid Tests are designed for screening purposes only. If necessary, please send the sample to your local laboratory for further analysis.
- 5.6 To ensure test accuracy, please do not use expired test strips and use precision instruments to conduct the test.
- 5.7 In order to avoid cross-contamination during the operation, please clean equipment and working area with 75% ethanol before the test and wear gloves while performing the test.
- 5.8 Sample dilution with buffer is required. Do not test the sample directly with test strips.
- 5.9 Highly concentrated samples and food samples containing high level of polyphenols (e.g. coffee, tea, wine, chocolate etc.), high fat volume (e.g. sesame butter, peanut butter, oil etc.) or heavy food colouring (e.g. soya sauce) will affect the results of the tests.
- 5.10 If the sample is too viscous or concentrated, it is recommended to increase the dilution factor of the sample with the buffer in this kit before testing.

6. Preparation of samples

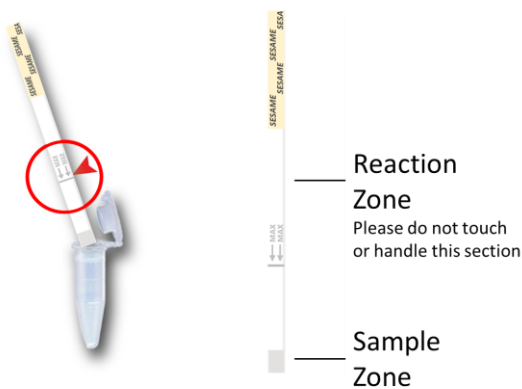
- 6.1 For liquid food/ drinks:
Add 50 µL of sample into 450 µL buffer in a 1.5 mL microcentrifuge tube and mix well (dilution factor here is 1/10).
- 6.2 For solid food:
 - 6.2.1 Grind the sample to powder thoroughly. Weigh 0.3 g of sample or take one scoop of the sample with a scoop provided in the kit.
 - 6.2.2 Add 3,000 µL buffer into a 4 mL sample tube (dilution factor here is 1/10).
 - 6.2.3 Vortex/ mix for 30 seconds.
 - 6.2.4 Leave sample mixture to settle for 1 minute.
 - 6.2.5 Transfer 500 µL (or 15 drops by dropper) of the sample mixture supernatant into a 1.5 mL microcentrifuge tube.
- 6.3 Environmental swab test:
 - 6.3.1 Transfer 500 µL (or 15 drops by dropper) of buffer

into a 1.5 mL microcentrifuge tube.

- 6.3.2 Wet a cotton swab in the Agitest™ Environmental Swab Kit with clean water.
- 6.3.3 Swab the sample with the pre-wetted cotton swab. (A sampling surface area of 100 cm² is recommended.)
- 6.3.4 Immerse the cotton swab in 500 µL of buffer. Make sure to immerse the cotton swab head in the buffer.
- 6.3.5 Gently agitate the cotton swab in the buffer for at least 30 seconds. (Please avoid splash of the buffer.)
- 6.3.6 Remove the cotton swab from the 1.5 mL microcentrifuge tube and leave the tube to rest for 1 minute.

7. Test implementation

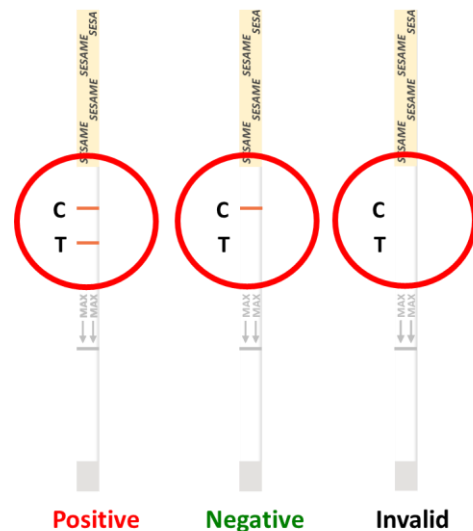
- 7.1 Open the alu-pouch and take out the test strip. (Please handle the colored sticker portion only and avoid touching with the reaction zone).
- 7.2 Insert the test strip into the sample mixture in 1.5 mL microcentrifuge tube.



****Note: Do not allow liquid height to exceed the arrows****

8. Results and sensitivity

- 8.1 Wait 15 minutes for the result. Please read the results immediately without further manipulation.
- 8.2 Result analysis:
 - 8.2.1 **Positive result: two colored bands** (the C and T red test bands) are visible within the reaction zone.
 - 8.2.2 **Negative result: one colored band** (the C red test band) is visible within the reaction zone.
 - 8.2.3 **Invalid result: no colored band** is visible within the reaction zone, the test is considered invalid.
 - *Please check the following:
 - A. If the test strip packaging is damaged.
 - B. If the test strip is damp.
 - C. If the sample is too viscous or concentrated. Please retest with a new test strip.



*NOTE:

- Please read test results within 30 minutes to ensure optimal accuracy.

Agitest™ Sesame – QUICK GUIDE

A. Materials Needed:

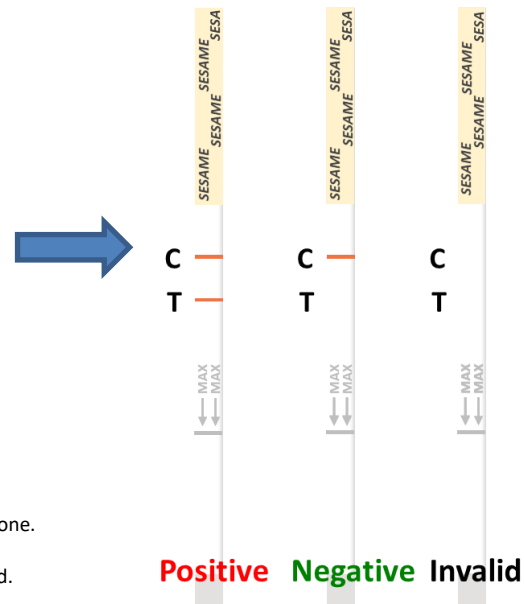
	Liquid Sample	Solid Sample	Environmental Swab Test
4 mL Sample Tube	•	•	
1.5 mL Microcentrifuge Tube	•	•	•
Pipetmans or Droppers	•	•	•
Scoop		•	
Swab (Optional)			•

B. Preparation of Samples

Liquid Sample	1 Transfer 450 µL Buffer	2 50 µL Liquid Sample + 450 µL Buffer	3 Vortex or Mix		
Solid Sample	1 0.3 g Solid Sample (Grind Finely) + 3,000 µL Buffer	2 Vortex or Mix 30 s	3 Settle Down 1 min	4 Pipette 500 µL Sample Mixtures Supernatant to 1.5 mL Tube	
Environmental Test	1 Transfer 500 µL Buffer	2 Wet the Swab with Clean Water	3 Swab the Sampling Surface 100 cm ² is Recommended	4 Agitate the Swab for 30 sec 30 s	5 Remove the Swab and Settle Down 1 min

C. Strip Testing and Result Analysis

1 Remove Strip from Package	2 Insert Test Strip into Tube Do Not Allow Liquid Height to Exceed the Arrows 15 min
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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 is visible within the reaction zone, the test is considered invalid.