

Food Allergen Rapid Test Strip

Instruction Manual – CASEIN

Brief Information

CASEIN Food Allergen Rapid Test is an immunochromatographic test for the detection of casein 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 labelling in processed food. CASEIN Food Allergen Rapid Test can be used with Environmental Swab Kit product no: SR00013220 to validate and verify allergen cleaning regimes in manufacturing and analytical environmental. This test is also suitable for food quality control in food processing plants specifically with inbound goods, processing stages and final product.

- Detection limit: 10 ppm casein, from bovine milk.
- Specificity: No cross reaction with seafood, almond, buckwheat, egg, soy, gluten or peanut.

Reagents provided

- Each test kit contains
- Rapid test strip 20 pouches
- Buffer 65mL, 1bottle
- Instruction manual

Equipment/materials required Not provided

- 20–200 µL and 1,000 µL Pipetmans.
- 1.5 mL microcentrifugal tubes.
- 15 mL centrifugal tubes.
- Accurate weighing scale.
- Grinder or homogenizer.
- Timer.
- Vortex mixer if available.
- Environmental Swab Kit Product Number: SR00013220 20 pieces.
- Clean water.

Storage instructions

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

Test procedure

Preparation of samples

- For liquid food/drinks: Measure 50µL of sample with 450µL Buffer into a 1.5 mL centrifugal tube and mix well the dilution factor here is 1/10. If sample contains high milk content, it is recommended to dilute by a factor of 100x. Add 5 µL of sample with 495 µL of dilution buffer into a 1.5 mL tube and mix well.

- **For solid food:** Weigh 0.3 g of sample grind finely with 3,000 μ L Buffer into a 15 mL centrifugal tube the dilution factor here is 1/10. Vortex/ mix for 30 seconds. Leave sample mixture to settle for 1 minute. Measure 500 μ L of the sample mixture supernatant into a 1.5 mL centrifugal tube.
- **Environmental swab test:** Transfer 500 μ L of Buffer into an unused 1.5 mL centrifuge tube. Wet the cotton swab in the Environmental Swab Kit with clean water. Swab the sample with the pre-wetted cotton swab. A sampling surface area of 100 cm² is recommended. Place the cotton swab in the 1.5 mL 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. Please avoid spilling the buffer. Remove the cotton swab from the 1.5 mL tube and leave the tube to rest for 1 minute.

Test implementation

Open the alu pouch and take out the test strip. Please handle the coloured sticker portion only and avoid contact with the reaction zone. Insert the test strip into the 1.5 mL centrifugal tube.



Results and sensitivity

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

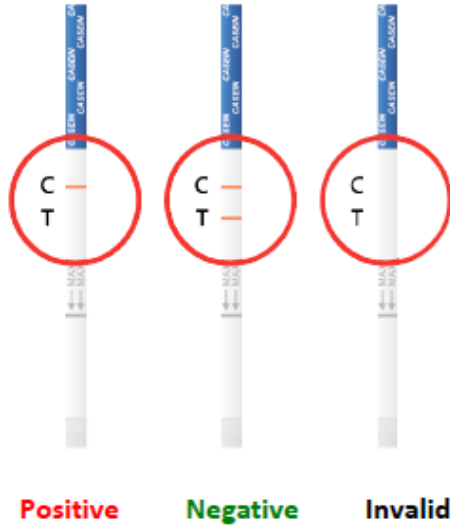
Result analysis

- **Positive result: one coloured band** the C red test band is visible within the reaction zone.
- **Negative result: two coloured bands** the C and T red test bands are visible within the reaction zone.
- **Invalid result: no coloured 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 too concentrated.

Please retest with a new test strip.



***NOTE:**

Please read test results within 30 minutes to ensure optimum accuracy.

Sensitivity calculation

Sample after dilution, a dilution factor will need to be considered. If the sample is further diluted, a dilution factor will need to be considered.