

Food Allergens

Reveal®

For Peanut Allergen



Intended Use

Reveal for Peanut Allergen is intended for the qualitative analysis of peanut residue in food products (e.g., cookies, crackers, chocolate bars, ice cream and cereals), clean-in-place rinses, and on environmental surfaces.

The Test

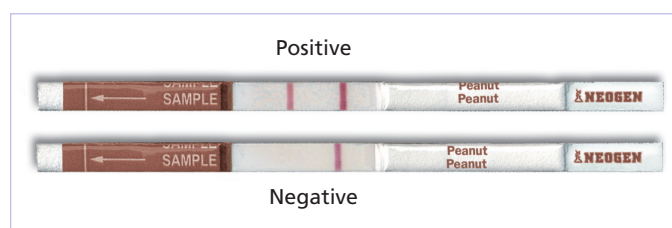
The test is a single-step lateral flow immunochromatographic assay. The extract is wicked through a reagent zone, which contains antibodies specific for peanut protein conjugated to colored particles. If peanut is present, it will be captured by the conjugated antibodies. The peanut-antibody-particle complex is then wicked onto a membrane which contains a zone of antibody specific for peanut protein. This zone captures the complex allowing the particles to concentrate and form a visible line. If no peanut is present, no line will form. The membrane also contains a control zone where an immune complex present in the reagent zone is captured by an antibody, forming a visible line. The control line will always form regardless of the presence of peanut, ensuring the strip is working properly.

The Procedure

1. Using an extraction method dependent upon the sample type, extract possible peanut residue from the sample.
2. Transfer approximately 0.5 mL of the supernatant from the extraction solution to a sample tube.
3. Place a strip with the sample end down into each sample tube.
4. Allow each strip to develop in the sample tube.
5. If a line forms in the test zone and another line forms in the control zone within 10 minutes (2 lines total), the sample is positive. If after the full 10 minutes there is no visible line in the test zone, but a visible line in the control zone, the sample is negative.

See package insert for complete instructions

Results



Product Specifications

Sensitivity:	Screens samples at 5 ppm peanut
Testing time:	10 minutes
Storage:	Room temperature, 18-30°C
Tests per kit:	25

Materials Recommended But Not Provided

Available from Neogen*

1. Scale capable of weighing 5 ± 0.1 grams
2. Timer
3. Graduated cylinder capable of measuring 125 mL
4. Allergen Extraction Kit
5. Allergen Environmental Swabbing Kit
6. Whatman #4 filter paper or Neogen filter syringe
7. Reveal centrifuge tube rack

Not available from Neogen

1. High-speed blender with a 250 mL jar
2. Water bath, hot plate or equivalent heat source capable of maintaining 60°C ± 1°
3. Thermometer
4. 1 L bottle to prepare extraction solution
5. Waterproof marker
6. Distilled or deionized water

Ordering Information

Prod.#	Product description
8438	Reveal for Peanut Allergen
8429	Allergen Extraction Kit
84325	Allergen Environmental Swabbing Kit
9590	Reveal AccuScan III Reader