

Food Allergens

Reveal®

For Total Milk Allergen



Intended Use

Reveal for Total Milk Allergen is intended for the qualitative analysis of milk residue (casein or whey) in liquid products (e.g., juices and sorbet), clean-in-place rinses, and on environmental surfaces.

The Test

Reveal for Total Milk Allergen is a two part lateral flow immunochromatographic assay. The first part of the assay consists of a detector reagent well, which contains antibodies specific for milk residue conjugated to colored particles. This reagent is rehydrated with a supplied sample diluent, and sample is added to the reagent well. If milk residue is present in the sample, it will be bound by the antibody-particle complex.

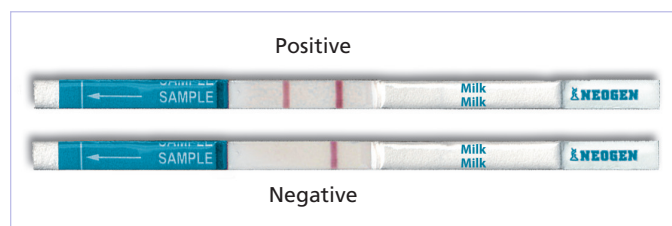
The second part of the assay consists of an immunochromatographic device used for the detection of milk residue. This device is inserted into the sample/reagent well. The milk-antibody-particle complex is then wicked onto a membrane which contains a zone of antibody specific for milk residue. This zone captures the complex allowing the particles to concentrate and form a visible line. If no milk 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 milk, ensuring the strip is working properly.

The Procedure

1. Using an extraction method dependent upon the sample type, extract possible milk residue from the sample.
2. Add 100 µL of the sample diluent to each reagent well and mix.
3. Add 100 µL of sample extract to reagent well and mix.
4. Place a strip with the sample end down into each sample well.
5. Allow each strip to develop in the sample well.
6. If a line forms in the test zone and another line forms in the control zone within 5 minutes (2 lines total), the sample is positive. If after the full 5 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 total milk
Testing time:	5 minutes
Storage:	Room temperature, 18-30°C
Tests per kit:	24

Materials Recommended But Not Provided

Available from Neogen*

1. 100 µL pipettor
2. Pipette tips
3. Well holder
4. Timer
5. Graduated cylinder capable of measuring 10-100 mL
6. Allergen Extraction Kit
7. Allergen Environmental Swabbing Kit

Not available from Neogen

1. Water bath, hot plate or equivalent heat source capable of maintaining 60°C ± 1°
2. Thermometer
3. 1 L bottle to prepare extraction solution
4. Distilled or deionized water

Ordering Information

Prod.#	Product description
8478	Reveal for Total Milk Allergen
8429	Allergen Extraction Kit
84325	Allergen Environmental Swabbing Kit
9590	Reveal AccuScan III Reader