

**CUSTOMER SERVICE**

Neogen Customer Assistance and Technical Services can be reached by using the contact information below. Training on this product, and all Neogen test kits, is available.

**MSDS INFORMATION AVAILABLE**

Material safety data sheets (MSDS) are available for this test kit, and all of Neogen’s Food Safety test kits, at [www.neogen.com](http://www.neogen.com), or by calling Neogen.

**WARRANTY**

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*Read instructions carefully before starting test*

# Reveal 3-D for Sesame

**TESTING KITS AVAILABLE FROM NEOGEN**

**Natural toxins**

- Aflatoxin, DON, ochratoxin, zearalenone, T-2/HT-2 toxins, fumonisin, histamine

**Foodborne bacteria**

- *E. coli* O157:H7, *Salmonella*, *Listeria*, *Listeria monocytogenes*, *Campylobacter*, *Staphylococcus aureus*

**Sanitation**

- ATP, yeast and mold, total plate count, generic *E. coli* and total coliforms, protein residues

**Food allergens**

- Almonds, crustaceans, eggs, gliadin, hazelnut, lupine, milk, mustard, peanuts, sesame, soy, walnut

**Genetic modification**

- CP4 (Roundup Ready®)

**Ruminant by-products**

- Meat and bone meal, feed



**North America**

**Neogen Headquarters**

620 Leshar Place, Lansing, MI 48912 USA  
800/234-5333 (USA/Canada) or 517/372-9200  
Fax: 517/372-2006 • [foodsafety@neogen.com](mailto:foodsafety@neogen.com)  
[www.neogen.com](http://www.neogen.com)

**Europe, Middle East and Africa**

**Neogen Europe**

The Dairy School, Auchincruive, Ayr  
KA6 5HW Scotland, UK  
+ 44 (0) 1292 525 600  
Fax: + 44 (0) 1292 525 601  
[info\\_uk@neogeneurope.com](mailto:info_uk@neogeneurope.com)  
[www.neogeneurope.com](http://www.neogeneurope.com)

**Mexico**

**Neogen Latinoamérica**

Darwin No. 83, Col. Anzures, México, 11590 D.F.  
(55) 5254-8235, (55) 5203-0111, (55) 5531-2837  
Fax: (55) 5531-1647  
[informacion@neogenlac.com](mailto:informacion@neogenlac.com) • [www.neogen.com](http://www.neogen.com)

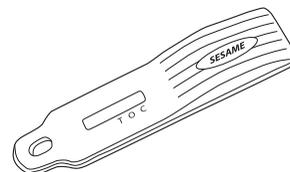
**Brazil**

**Neogen do Brasil**

Rua: Alberto Guizo 760, Distrito Industrial João Narezzi, Indaiatuba – SP Brasil, Cep: 13.347-402  
Tel: +55 19 3935.3727  
[info@neogendobrasil.com.br](mailto:info@neogendobrasil.com.br) • [www.neogen.com](http://www.neogen.com)

**INTRODUCTION AND INTENDED USE**

Reveal® 3-D for Sesame is uniquely designed with three lines of detection and can be used virtually anywhere to screen environmental swabs and rinses for the presence of sesame. The test’s 3-D technology ensures greater reliability with screening than ever before.



Reveal 3-D for Sesame is intended for use only in an industrial food manufacturing/preparation context or for food labelling enforcement testing. Because of the problems of adequately sampling and extracting sesame, it is not suitable for the testing of foods to be consumed in the home or in a restaurant by allergic individuals. The test detects significant (low parts per million, or ppm) levels of sesame content in rinses and environmental swabs.

**DETECTION LIMIT**

The test uses highly specific antibodies to detect sesame protein. Sesame can be detected from various surfaces using the provided environmental swabs or from rinses.

Utilizing the environmental swabs supplied, levels of 5 µg/ 100 cm<sup>2</sup> of sesame on surfaces can be detected.

When analyzing rinses, sesame residues are detectable at a level of 5–10 ppm. The presence of cleaners and sanitizers can affect limit of detection in rinses.

**TEST PERFORMANCE**

Reveal 3-D for Sesame has undergone rigorous validation during development and a report is available upon request.

**SAMPLE COMPATIBILITY**

Reveal 3-D for Sesame is designed to detect sesame on environmental surfaces and in rinses. Although every effort has been made to validate as many variables as possible, there may be some sample types that are not suitable for testing (e.g., sesame products that have been highly processed, such as fully refined sesame oil, or have undergone a harsh heat treatment such as toasting).

Users should perform in-house matrix-specific spike recovery validation work in conjunction with a validated laboratory assay (e.g., BioKits) to help confirm Reveal 3-D for Sesame results. This procedure will highlight any problematic matrices encountered.

The validation of certain food ingredients may be applicable for the Reveal 3-D test format. However, it is recommended a more broadly inclusive test method, such as BioKits for Sesame, be used for food ingredients. Please contact a Neogen representative or distributor for additional details.

**MATERIALS PROVIDED**

Reveal 3-D for Sesame (Neogen item 8535) includes:

1. An instruction leaflet
2. 1 foil pouch, containing 10 Reveal 3-D for Sesame devices
3. 10 sachets containing extraction solution type 10
4. 10 sample tubes and caps
5. 10 individually packaged sterile swabs with break-off tips

**SAMPLING TECHNIQUE**

**Clean-in-place rinse water**

As only a small amount of material is required for Reveal 3-D for Sesame, it is important to test a representative portion of liquid.

**Environmental swabbing**

The swabs supplied are intended to be used for the collection of environmental samples from which the presence of sesame can be tested. This method can be used to validate the adequacy of cleaning and/or to identify problem areas (e.g., unwanted buildup of sesame in processing equipment).

**Food samples**

Contact a Neogen representative or distributor for more information on testing food samples for sesame.

**PRECAUTIONS**

1. For environmental testing in an industrial food manufacturing/ preparation, or labeling enforcement context only.
2. Do not use any part of the test beyond the expiration date.
3. Do not open the foil pouch until just before use.
4. Always store the kit between 2–8°C (35–46°F). Avoid freezing.
5. Ensure the foil bag is tightly sealed after removal of a device.
6. Bring kit to room temperature 18–30°C (64–86°F) prior to use.

**TEST STORAGE / SAMPLE STABILITY**

Store the Reveal 3-D for Sesame kit between 2–8°C (35–46°F). The kit should be used within the expiration date stated on the outer label. Extracted samples should be used within **3 hours** of extraction.

**LIMITATIONS**

A negative test from a surface or rinse cannot exclude the possibility the food contains sesame since it may be distributed unevenly on the surface or in the rinse and may be below the detection limit of the test with that specific sample.

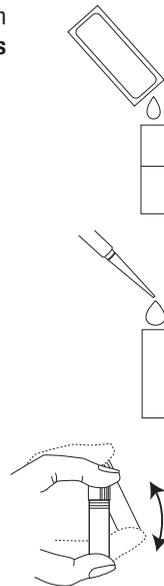
Reveal 3-D for Sesame is qualitative and only should be used as a preliminary screen for the presence of sesame. The validity of results obtained with the test preferably should be viewed in conjunction with data from a quantitative assay, such as BioKits for Sesame.

**RINSE SAMPLING**

For each sample to be tested, remove the following from refrigeration and allow to equilibrate at room temperature before use (**20–30 minutes** out of refrigerator):

1. 1 sample tube
2. 1 Type 10 Extraction Buffer Sachet
3. 1 Reveal 3-D for Sesame device (in foil pouch)

1. Carefully tear/cut off the top of the Type 10 Extraction Buffer Sachet and add the entire contents to the sample tube.
2. Add 1 mL sample to the sample tube. If a pipette is unavailable, 1 mL may be crudely estimated by half-filling a white sample tube cap. **NOTE:** Test results may be less accurate.
3. Secure the white cap and shake for **1 minute**.



**SWAB SAMPLING**

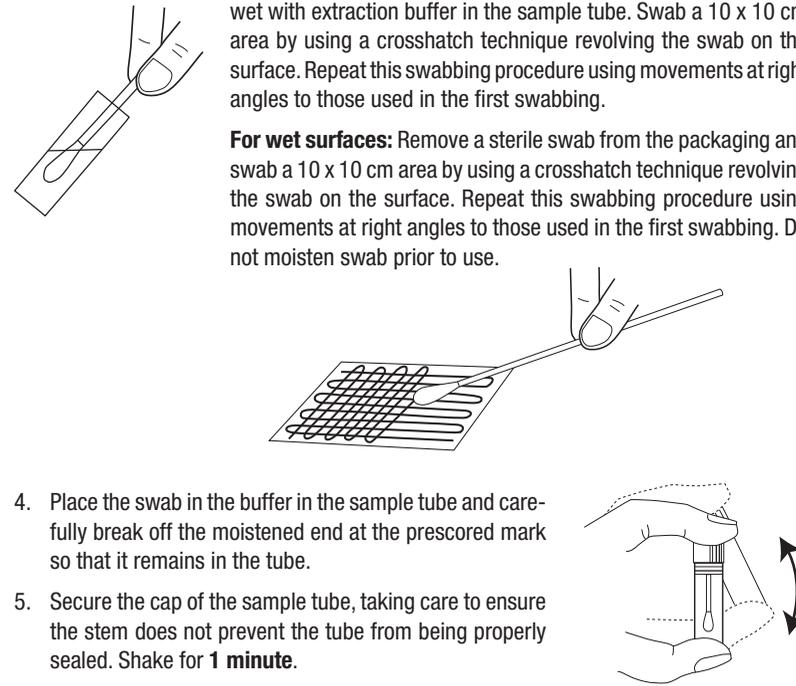
For each sample to be tested, remove the following from refrigeration and allow to equilibrate at room temperature before use (**20–30 minutes** out of refrigerator):

1. 1 sample tube
2. 1 Type 10 Extraction Buffer Sachet
3. 1 Reveal 3-D for Sesame device (in foil pouch)
4. 1 sterile swab

1. Carefully tear/cut off the top of the Type 10 Extraction Buffer Sachet and add the entire contents to the sample tube.
2. Estimate a swabbing area of approximately 10 x 10 cm. Alternatively, use the swab to collect samples of contamination from problem areas (e.g., processing equipment).
3. Gather the sample with the swab, using one of the following methods:

**For dry surfaces:** Remove a sterile swab from the packaging and wet with extraction buffer in the sample tube. Swab a 10 x 10 cm area by using a crosshatch technique revolving the swab on the surface. Repeat this swabbing procedure using movements at right angles to those used in the first swabbing.

**For wet surfaces:** Remove a sterile swab from the packaging and swab a 10 x 10 cm area by using a crosshatch technique revolving the swab on the surface. Repeat this swabbing procedure using movements at right angles to those used in the first swabbing. Do not moisten swab prior to use.



4. Place the swab in the buffer in the sample tube and carefully break off the moistened end at the prescored mark so that it remains in the tube.
5. Secure the cap of the sample tube, taking care to ensure the stem does not prevent the tube from being properly sealed. Shake for **1 minute**.

**SAMPLE TESTING**

1. Remove the lid and fill it with the liquid from the tube. Any froth should remain in the tube.
2. Dip the head of the Reveal 3-D device into the liquid in the lid. Ensure the cavity is saturated with the liquid.
3. Leave the cavity saturated until liquid is seen running in the test window.
4. Place device on a flat surface and allow test to develop for **5 minutes**.

**NOTE:** It is essential to place the device flat on a level surface as soon as the liquid has entered the test window to stimulate flow through the device.

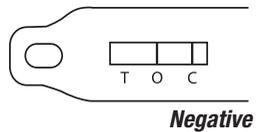


**READING RESULTS**

Liquid will flow into the test window. Read the result **5 minutes** after dipping.

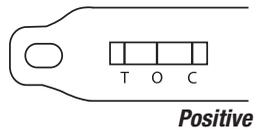
**Negative result**

No line at position T (test): Level of sesame below detection limit. (See limitations section.)



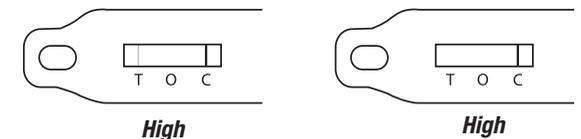
**Positive result**

Any intensity of line at position T (test): Level of sesame above detection limit.



**High results**

No line is visible at position O (overload) and a line is faintly visible or absent at position T: Sample is overloaded with sesame.



**Invalid results**

If no line appears at position C (control), then the test is invalid.