

# Solutions for Allergens



# We offer a range of allergen testing solutions and formats to suit your needs.

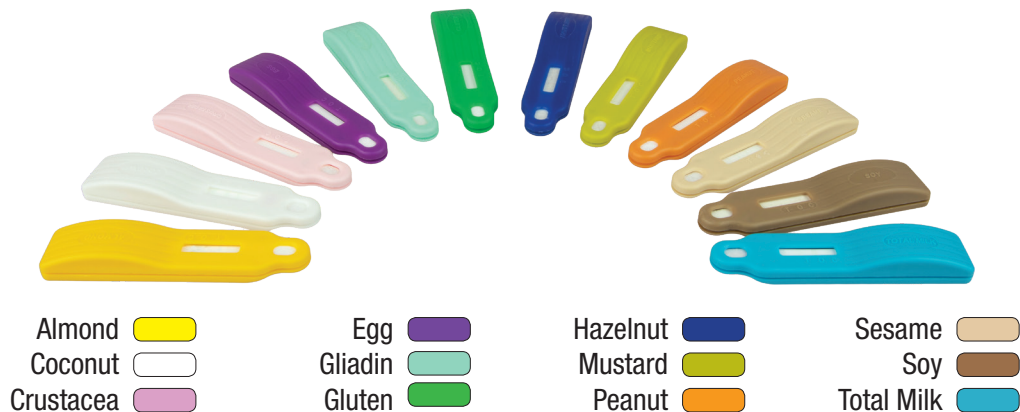
## Lateral Flow Tests

Neogen's Reveal® tests are simple, easy-to-use lateral flow tests, used to screen for the presence of low levels of allergens on environmental swabs, clean-in-place rinses and validated food matrices. Perfect for use onsite, the tests provide qualitative results in minutes.

### Why Use Our Lateral Flow Tests?

- ✓ **Detects low levels** – Have confidence that our tests can detect low allergen levels to help prevent that an unlabelled – and potentially dangerous – allergen makes its way into food products
- ✓ **Provides fast, actionable results** - Quick results on the presence of unwanted food allergens to allow products to be released faster and avoid production line stoppages for longer than necessary
- ✓ **Qualitative** - Simply determine the presence or absence of target allergens in your samples, ensuring compliance with regulations and avoiding costly recalls
- ✓ **Easy to use** - Suitable for all skill levels with only minimal training and equipment required

Our Reveal 3-D tests featuring an innovative overload line design are available for:



## Innovative Overload Line Design

When testing for allergens with rapid methods such as lateral flows tests, there is a risk that a grossly contaminated sample returns a false negative by overloading the strip.

Our Reveal® 3-D tests include an innovative overload line that makes it possible to instantly and easily differentiate a high positive result from a negative one.

### Reveal for Multi-Treenut

We also offer Reveal for Multi-Treenut, a unique lateral flow test for the rapid detection of six tree nuts with one simple test.

This test is designed to screen for the presence of any one or a combination of **almond, hazelnut, pecan, walnut, cashew** and **pistachio**.



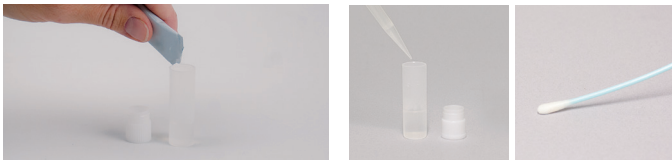
# Procedure Snapshot

Our test kits and procedures are simple to follow, please see below for example protocols for our lateral flow and ELISA test formats.

**Note: Please read kit instructions completely before performing test.**

## Lateral Flow

### Reveal Extraction Procedure



1. Open extraction buffer and add to a sample tube.
2. Add sample to the tube or gather sample and break off the swab into the tube. Secure cap and shake.

### Reveal Test Procedure



1. Remove lid and fill with liquid from the tube
2. Dip the device into the liquid in the lid. Leave until the liquid is seen running in the test window.



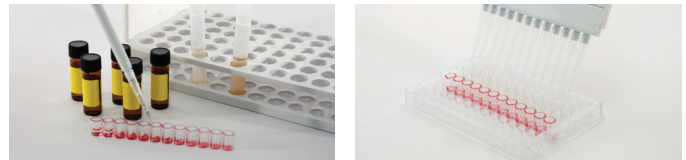
3. Place the device on a flat surface and allow to develop as per kit instructions.



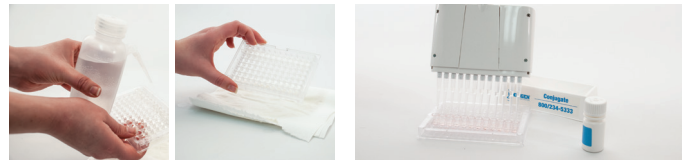
4. Interpret the results.

## ELISA

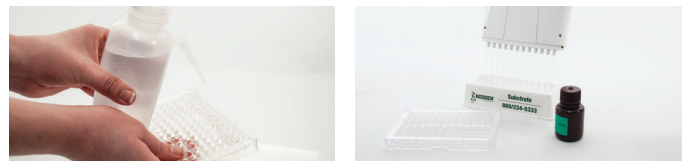
### Veratox Test Procedure



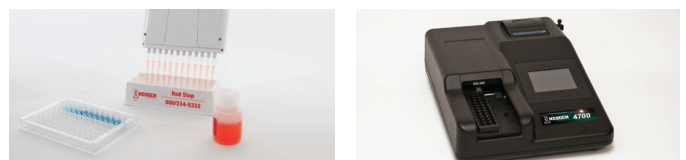
1. Add controls and sample extract into red-marked mixing wells.
2. Transfer controls and sample extracts into the clear antibody wells. Incubate as per kit instructions.



3. Dump the liquid from the antibody wells and wash wells thoroughly with wash solution.
4. Add conjugate solution into the clear antibody wells. Incubate as per kit instructions.



5. Repeat the wash step.
6. Add substrate solution into the clear antibody wells. Incubate as per kit instructions.



7. Add stop solution into the clear antibody wells.
8. Read antibody wells in a microwell reader with a 650 nm filter and calculate results.

## External Laboratory Services

If you are looking for an external laboratory to carry out your full testing requirements, or simply looking for a partner to verify your results, we are here to help.

We offer a range of allergen testing services for a variety of food matrices, CIP rinse waters and environmental swabs using ELISA methods.

**With flexible turnaround times and confidential results you can trust, why not find out how Neogen can support your allergen testing?**

\*Not all tests are accredited to the ISO 17025. Visit [foodsafety.neogen.com/uk](https://foodsafety.neogen.com/uk) for a complete schedule of our accreditation

**Benefit  
from our  
UKAS ISO 17025  
accredited\*  
laboratory  
services**

# ELISA Tests

Neogen's Veratox® microwell assays are perfect for those with laboratory set ups from food manufacturers to commercial and government laboratories, and provide accurate, quantitative results within 30 minutes following extraction.

## Why Use Our ELISA Tests Onsite?

- ✓ **Quantitative & Precise Results** – From processing through to production and end product testing, quantitative results can ensure the product is free from cross-contamination and avoid any unnecessary delays
- ✓ **Efficient Workflow** – With only minimal training and equipment required, the simple process means less wasted time or resource within your lab
- ✓ **Technical Support** – Neogen's dedicated support team has technical expertise to help you with training and technical queries so that you can be confident in your testing



## Why Use Our ELISA Tests In Your Commercial Lab Environment?

- ✓ **Demonstrable & Precise Methods** – Easily determine the presence of unwanted food allergens in an ingredient or product. Validation reports on the tests parameters and performance characteristics ensure that you are using testing methods adapted to your clients' requirements
- ✓ **Batch Testing** – Our ELISAs allow you to test multiple samples at a time for a cost effective testing plan
- ✓ **Consistent Workflow** – Our protocols are designed so that it is easy to switch between assays, meaning that risk of errors are reduced and training is easier

Our Veratox ELISA test kits are available for: **Gluten, Total Milk, Egg, Soy, Almond, Hazelnut, Peanut, Gliadin, Mustard, Sesame, Crustacea, and Coconut.**



## Your Trusted Partner

With Neogen, it's not just about our products; our experienced R&D, Technical Support and Customer Service teams are on hand to offer guidance and support every step of the way. At Neogen we believe in partnerships, that's why we offer a range of training and support tools to help you not only learn about our products but build knowledge and skills within your own team.

We have over 25 years of experience providing an established range of allergen testing solutions and services for a wide variety of food matrices, clean-in-place rinse waters and environmental surfaces.

**We offer a comprehensive range of methods to detect:**

- **Gluten**
- **Almond**
- **Total Milk**
- **Hazelnut**
- **Sesame**
- **Egg**
- **Peanut**
- **Crustacea**
- **Soy**
- **Gliadin**
- **Coconut**
- **Tree Nuts**
- **Mustard**

## Training and Support

Our in-depth product training can be delivered where and when you need it. Our talented team are on hand to provide comprehensive training and support tailored to your business needs, from customised sessions catered to all skill levels, to technical troubleshooting and guidance.

## LabLive

Our interactive online tool, LabLive, lets us offer you support, training and troubleshooting from the comfort of your own desktop or lab. Our free web service links you directly with technical experts for a personal experience, giving you instant access to support when you need it.

## Technical Services

Our on-site team of highly skilled technicians can provide you with the most efficient technical support. For unique commodities, we have an expert team dedicated to evaluating new matrices on our rapid methods.

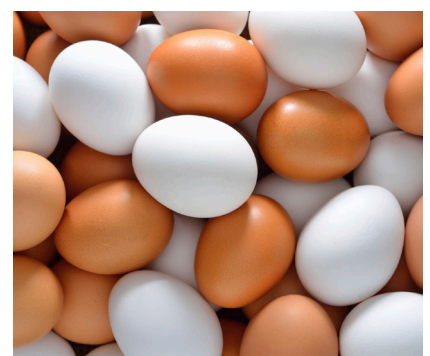
## Proficiency Testing

Neogen have partnered with DLA (Dienstleistung Lebensmittel Analytik GbR) to offer a range of proficiency tests in the areas of foods, cosmetics and contact materials such as packaging.



Proficiency testing is an important element for quality assurance of laboratory methods. Participation in proficiency tests enables laboratories to prove their own analytical competence under realistic conditions and provides valuable data regarding the validity of the test method with respect to the requirements of ISO/IEC 17025.

After the evaluation is finished, any remaining sample materials from the proficiency tests can be provided for laboratory quality control purposes.



# Complete Food Safety Solutions

Neogen offers a range of complementary product lines to be used alongside our solutions for allergens as part of a comprehensive food safety testing plan, including:

## Hygiene Monitoring

Our AccuPoint® Advanced Hygiene Monitoring System validates the effectiveness of your hygiene programme by detecting food residues and microorganisms present on surfaces and in rinse waters by measuring the amount of adenosine triphosphate (ATP) present.

AccuPoint Advanced is the first hygiene monitoring system that has been rigorously tested and validated by AOAC as an AOAC Performance™ Tested Method. Our three colour-coded samplers with liquid-stable chemistry are unrivalled in recovery of ATP from surfaces and rinse waters.



## Mycotoxins

From rapid onsite qualitative tests to ELISAs, we've got a solution for you. Our Reveal Q+ tests are simple, easy-to-use lateral flow tests, providing quantitative results in minutes. Perfect for use onsite, the tests have unmatched accuracy and reproducibility allowing for quick and convenient testing. Our innovative and environmentally-friendly water-based extraction process is available for a range of mycotoxins with our lateral flow and ELISA tests.

We also offer mycotoxin laboratory services providing analysis of a wide variety of food and feed matrices.



## Seafood and Shellfish

Neogen is the only commercial company to offer both onsite testing for marine biotoxins and external laboratory services to detect ASP, DSP, PSP toxins and norovirus. We also have a range of histamine testing solutions, available in three easy to use formats to suit your needs, each with a simple water extraction. In addition, we have a rapid semi-quantitative test for detecting sulfites in shrimp.



## We also offer solutions for:

- Traditional Microbiology
- Food Genomics
- Rapid Microbiology
- Species Identification

**Why not ask how we can improve on your current testing today?**



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