



# 3M™/Neogen® Allergen Testing

Plus all the supplies you need to get started



## Allergen Testing Designed For Your Lab.

Food allergens are a major concern for food and beverage manufacturers. A robust food safety program should include environmental monitoring and allergen control to assist with allergen exposure and recall situations. Specific and non-specific allergen tests are two general approaches for cleaning verification.

We have the tools you need to achieve a successful allergen program. Ensure the safety and quality of your products with 3M/Neogen allergen detection solutions, plus all of the supplies you need to get started.



## 3M™ Rapid Allergen Protein Tests vs. 3M™ ELISA Allergen Test Kits—Which Test is Right for Your Needs?

When deciding which type of allergen testing is needed for your facility, here are some questions to consider:

- Are you looking for presence/absence testing or to know the amount of allergenic protein present?
- How quickly do you need results?
- Is the testing part of a positive release program, or a cleaning verification/validation process?
- Do you have a laboratory area to do testing?
- Are you testing surfaces or products?

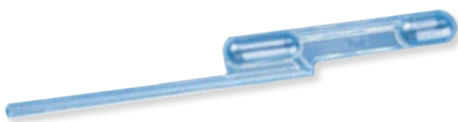
The **3M Rapid Allergen Protein Test Kits** contain a Lateral Flow Device (LFD) that will give you presence/absence results in 10 to 12 minutes. There are 13 allergen specific kits available. This test can be used on surfaces, ingredients, and finished products, and can easily be conducted on the production floor. Product testing will require some additional laboratory equipment to prep the sample for testing.

The **3M ELISA Allergen Test Kit** is best for applications that require the quantification of the amount of allergen protein present. This system is most frequently used to test product or CIP rinse water, and gives results in 50 minutes. All samples require extraction, and therefore access to a laboratory and additional laboratory equipment. There are 20 allergen specific tests available for the 3M ELISA Allergen Test Kits.

## 3M™ Allergen Protein Rapid Test Kits

A qualitative immunochromatographic assay for rapid in-plant monitoring of specific protein allergens. These fast, 10 to 12 minute tests can be used for clean-in-place (CIP) final rinse water, environmental swab samples, raw ingredients, and finished food products. Additional items needed: swabs (716-7006) and transfer pipets (200-3123), both sold separately. 25 tests/box. Sold by the box.

Stock #	Allergen Protein	Limit of Detection
460-3017	Almond	2.0 ppm
460-3007	Cashew	2.0 ppm
460-3031	Coconut	2.0 ppm
460-3111	Egg White	0.5 ppm
460-3003	Fish	1.0 ppm
460-3014	Gluten	5.0 ppm
460-3008	Hazelnut	2.0 ppm
460-3018	Milk	3.0 ppm
460-3004	Peanut	1.0 ppm
460-3016	Pecan	3.0 ppm
460-3006	Pistachio	2.0 ppm
460-3002	Soy	2.0 ppm
460-3015	Walnut	2.0 ppm



## 100 µL Exact Volume Transfer Pipets

Exact volume transfer pipets are produced from chemically resistant, low-density polyethylene. Designed to dispense a precise volume of 100 µL. Non-sterile.

Stock #	Packaging	Unit
200-3123	500/bg	BG



## Puritan® Sterile Swab

Sterile polyester tipped applicator with plastic shaft. 6" length.

Stock #	Packaging	Unit
716-7006	100/bx	BX



## Reveal® 3-D Allergen Test Kits

A single-step lateral flow device which requires no additional equipment. The three line readout confirms the method has been performed successfully, and differentiates between low and high levels of detection. Sample preparation and testing take less than 10 minutes, which is a safe and efficient choice for an on-site food allergen program. Purchasing restrictions may apply. 10 tests/kit. Sold by the kit.



Stock #	Allergen	Rinse/Food Limit of Detection	Swab Limit of Detection
498-3086	Almond	1.1 to 5.0 ppm	1 to 4 µg/100 cm <sup>2</sup>
498-3021	Coconut	1.0 to 5.0 ppm	1 µg/100 cm <sup>2</sup>
498-3081	Crustacean	1.0 to 10.0 ppm	40 µg/100 cm <sup>2</sup>
498-3082	Egg	2.5 to 5.0 ppm	10 µg/100 cm <sup>2</sup>
498-3131	Gluten	5.0 ppm	5 µg/100 cm <sup>2</sup>
498-3087	Hazelnut	0.75 to 10.0 ppm	10 µg/100 cm <sup>2</sup>
498-3094	Total Milk	1.8 to 5.0 ppm	20 µg/100 cm <sup>2</sup>
498-3088	Mustard	5.0 to 10.0 ppm	20 µg/100 cm <sup>2</sup>
498-3041	Peanut	1.3 to 5.0 ppm	3 to 4 µg/100 cm <sup>2</sup>
498-3089	Sesame	5.0 to 10.0 ppm	5 µg/100 cm <sup>2</sup>
498-3093	Soy	2.6 to 5.0 ppm	2 µg/100 cm <sup>2</sup>

The additional materials required for the extraction of food samples are sold separately and listed below.

## Materials for Extraction of Food Samples

Stock #	Description	Packaging	Unit
498-3112	Reveal® 3-D Food Buffer, 250 mL	-	BO
498-3113	Graduated Polypropylene Test Tubes, 50 mL	50/pk	PK
498-3116	Reveal® 3-D Gluten Food Buffer, 250 mL	-	BO



## Reveal® Multi-Treenut Allergen Kit

Intended for the qualitative analysis of treenut residue for clean-in-place rinses and environmental surfaces. This unique all in one kit analyzes a variety of tree nuts, including: almond, cashew, hazelnut, pecan, pistachio, and walnut, which reduces the need for multiple test kits. Purchasing restrictions may apply. 10 tests/kit.

Stock #	Allergen	Rinse/Food Limit of Detection	Swab Limit of Detection	Unit
498-3083	Multi-Treenut	5.0 to 10.0 ppm	5 to 50 µg/100 cm <sup>2</sup>	KT



## United Scientific Variable Volume Micropipette

With its easily adjustable volume controls, precise pipetting is attainable. The ergonomic design ensures unparalleled comfort, while the digital display provides effortless data reading. Calibrated according to ISO 8655 standards.

Stock #	Volume Range	Unit
700-3711	10 to 100 µL	EA



## Universal Pipet Tips

Perfect fit for the 700-3711 pipettor. 1 to 200 µL. Non-sterile. Bulk pack.

Stock #	Packaging	Unit
700-3102	1000/pk	PK





## United Variable Volume Pipettor

Make your allergen testing more efficient with this 100 to 1000  $\mu$ L pipettor, which provides you with all the volumes needed to complete your testing. Featuring easy disassembling for autoclaving the tipcone and built-in tip ejector. Pipettes are calibrated to ISO 8655 standards. A calibration certificate is provided with each pipette.

Stock #	Unit
700-3710	EA



## Universal Pipet Tips

Perfect fit for the 700-3710 pipettors. Non-sterile. 200 to 1000  $\mu$ L. Bulk pack.

Stock #	Packaging	Unit
700-3110	1000/pk	PK



## Microcentrifuge 2 mL Tubes

When running finished products for allergens these graduated, 2 mL tubes have an attached snap cap. Certified free from RNase, DNase, DNA, and Pyrogens. They are packaged in a resealable, self-standing bag. Non-Sterile.

Stock #	Packaging	Unit
200-3010	500/bg	BG



## Bel-Art SP Scienceware™ Rack

2 mL microcentrifuge test tube racks are stackable and hold 24 tubes. Can be steam autoclaved at 121°C.

Stock #	Unit
010-3419	EA



## Boekel™ Mini Tube Vortex Mixer

Simple, compact lab vortex mixer with a low-profile and small footprint. Ideal for mixing centrifuge tubes, culture tubes, blood tubes, and test tubes. The unit has a pressure sensitive cup for touch activated operation or can run in continuous mode. The suction cup feet prevent the unit from moving during operation.



Stock #	Speed	Maximum Tube Dia
068-3010	300 to 6000 RPM	20 mm

## OHAUS® Frontier™ 5306 Mini Centrifuge

A powerful mini centrifuge for simple and rapid liquid separation. Includes an eight-position, 1.5/2 mL tube rotor as well as a four-position eight-strip PCR tube rotor that can accommodate 32 individual PCR tubes or 0.2 mL strip tubes. With the included adapters, 0.2 mL and 0.5 mL strip tubes can be accommodated in the eight position tube rotor, further increasing its versatility.



Stock #	Rotating Speed	Scope	Maximum Capacity
500-3901	6000 RPM		8 x 1.5 mL/2 mL

## Difference between Limit of Detection and Limit of Quantification

**Limit of detection (LOD):** The lowest concentration of the allergen in a test sample that can be distinguished from a true blank sample at a specified probability level.<sup>3</sup> It is determined by adding three standard deviations to the mean optical density value of forty-eight standard zero replicates and calculating the corresponding concentration.

**Limit of Quantification (LOQ):** The lowest level of the allergen in a test sample that can be reasonably quantified at a specified level of precision.<sup>3</sup>

<sup>3</sup>Abbott, M., Hayward, S., Ross, W., Godefroy, S.B., Ulberth, F., Van Hengel, A. J., Roberts, J., Akiyama, H., Popping, B., Yeung, J.M., Wehling, P., Taylor, S., Poms, R.E., and Delahaut, P. (2010). Appendix M: Validation Procedures for Quantitative Food Allergen ELISA Methods: Community Guidance and Best Practices. J. AOAC Int. 93, 442-450.

## 3M™ Allergen Protein ELISA Test Kits

A universal extraction protocol streamlines testing used for multiple analytes. This test kit is used to receive quantifiable results for monitoring specific food allergens across a wide variety of foods. Can be used for clean-in-place (CIP) final rinse water, environmental swab samples, food ingredients, and processed food products. 96 tests/box. Sold by the box.

- Available for both processed and unprocessed target allergen proteins.
- Requires additional laboratory equipment.



Stock #	Allergen Protein	Limit of Quantification	Limit of Detection
460-3120	Almond	1.0 ppm	1.9 ppb
460-3121	Bovine Casein	0.5 ppm	1.7 ppb
460-3122	Bovine Total Milk	1.0 ppm	5.8 ppb
460-3123	Brazil Nut	1.0 ppm	1.3 ppb
460-3124	Cashew	0.9 ppm	2.6 ppb
460-3125	Coconut	2.0 ppm	9.7 ppb
460-3126	Crustacean	2.0 ppm	10.2 ppb
460-3127	Egg White	0.5 ppm	2.1 ppb
460-3128	Fish	1.0 ppm	2.7 ppb
460-3129	Hazelnut	1.0 ppm	1.9 ppb

Stock #	Allergen Protein	Limit of Quantification	Limit of Detection
460-3130	Macadamia	0.3 ppm	1.1 ppb
460-3131	Mollusk	1.0 ppm	7.2 ppb
460-3132	Mustard	1.5 ppm	3.1 ppb
460-3133	Peanut	2.0 ppm	6.7 ppb
460-3134	Pecan	0.7 ppm	3.7 ppb
460-3135	Pine Nut	0.5 ppm	1.3 ppb
460-3136	Pistachio	1.0 ppm	3.5 ppb
460-3137	Sesame	2.0 ppm	3.7 ppb
460-3138	Soy	2.0 ppm	11.0 ppb
460-3139	Walnut	2.0 ppm	6.9 ppb

## 3M™ Clean-Trace™ Surface Protein (Allergen) Test Swabs

A simple and sensitive test swab which detects non-specific protein residues on surfaces and in solutions. Visual reading of a color change indicates the presence of detectable levels of protein. Detects as little as 3µg of protein. Note: All items listed below are needed to conduct proper testing.

Stock #	Description	Packaging	Unit
351-3062	Surface Protein (Allergen Swabs)	60/ca	CA
038-3061	Thermo Scientific™ Single Digital Dry Baths/Block Heaters	1/ea	EA
038-3082	Thermo Scientific™ Single Digital Block	1/ea	EA
511-3301	Thermco® Spirit-Filled Certified Bottled Thermometers	1/ea	EA



## Agilent BioTek 405 TS Microplate Washer

Wash steps are critical to many ELISA processes, including colorimetric, fluorometric, and luminometric methods. 405 TS easily accomplishes automated plate washings for accuracy and efficiency.



Stock #	Plate Type	Wash Volume	Residual Volume	Unit
155-3541	96 & 384 Wells	25 to 3,000 µL	< 2 µL	EA

## Agilent BioTek 800 TS Absorbance Reader

High-precision and versatility make up the fabric of this microplate reader. Color touchscreen enables you to see critical information about your sample status. Built-in software provides fast access to data as well as the ability to customize protocols and swiftly export data onto an external hard drive or printer.



Stock #	Plate Type	Detection Method	Unit
155-3540	6 to 384 Well Plates	Absorbance	EA

## Reagent Reservoir

Sterile, white reservoirs are recommended if testing several samples at a time. Angled design promotes funneling of liquid to maximize retrieval. 50 mL.



Stock #	Description	Packaging
<b>250-3223</b>	Individually Wrapped	80/ca
<b>250-3224</b>	5 Bulk Packed	200/ca

## Centrifuge Tubes

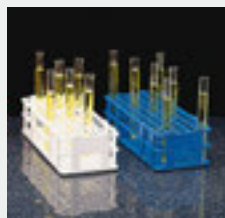
Durable polypropylene tube with conical bottom and graduated for accurate measuring.



Stock #	Capacity	Packaging
<b>250-3064</b>	15 mL	500/ca
<b>250-3068</b>	50 mL	500/ca

## Bel-Art™ Test Tube Racks

SP Scienceware™ No-Wire™ autoclavable test tube racks for centrifuge tubes.



Stock #	Capacity	Unit
<b>010-3747</b>	Holds 40 Tubes	EA
<b>010-3749</b>	Holds 21 Tubes	EA



## Puritan® Sterile Swab

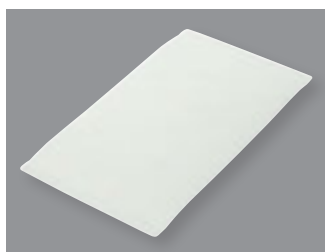
Sterile polyester tipped applicator with plastic shaft. 6" length.

Stock #	Packaging	Unit
<b>716-7006</b>	100/bx	BX

## Sealing Film

Adhesive plate sealing film to cover microplate wells to prevent spillage and evaporation during incubation steps. 50/pack.

Stock #	Unit
<b>250-3225</b>	PK



## Weighing Boat

For use with analytical balances and weighing out solid samples. Smooth texture allows solids to flow freely. White. 500/box.



Stock #	Size	Capacity	Unit
<b>320-3004</b>	3.5" x 3.5"	85 mL	BX

## Micro Spoon

Spoon and spatula all in one.



Stock #	Material	Length	Unit
<b>700-3230</b>	Stainless Steel	9"	EA

## SP Bel-Art Wide-Mouth Wash Bottle

Label your own wash bottle to store 1X 3M™ Wash Solution for manual washing of ELISA plates.



Stock #	Capacity	Unit
<b>010-3649</b>	500 mL	EA

## Pyrex® 3024 Graduated Cylinders

Glass graduated cylinders with single metric scale. Calibrated to deliver. Plastic bumper guard included. Suggested usage is for the preparation of 1X solutions of 3M™ Extraction Buffer, 3M Diluent, and 3M Wash Solution.

Stock #	Capacity	Unit
<b>140-3243</b>	100 mL	EA
<b>140-3244</b>	250 mL	EA
<b>140-3245</b>	500 mL	EA



## Pyrex® Media Bottles

Heavy-duty storage bottles to store 1X solutions of 3M™ Extraction Buffer and 3M Wash Solution. Autoclavable. Complete with orange polypropylene plug seal caps and clear pouring rings. Orange cap and clear rings will withstand temperatures of 140°C (284°F). For 180°C (356°F), use red melamine caps and red PTFE rings (140-3237).

Stock #	Size	Unit
<b>140-3009</b>	100 mL	CA
<b>156-3101</b>	250 mL	EA
<b>156-3116</b>	500 mL	PK
<b>498-3151</b>	1000 mL	EA





## Eppendorf Research® plus Pipette Adjustable Volume

The most advanced and ergonomic pipette available from Eppendorf. Designed from the ground up to be the lightest and most ergonomic pipette while still maintaining performance and robustness. This ultralight Pipette meets the highest needs in precision and accuracy—combined with ultimate ergonomics and increased flexibility.

Features include easy volume adjustment, color control button, ergonomically placed ejector button, 4 digit volume display, secondary adjustment display, Eppendorf PerfectPiston™ system, and spring loaded tip cone. Autoclavable. Single-channel. 3-year warranty.

Stock #	Volume Range	Control Button Color	Unit
090-3331	2 to 20 µL	Yellow	EA



eppendorf

## Eppendorf Multi-Channel Research® plus Pipette

Adjustable volume, 10 to 100 µL, eight channel, pipette to transfer a recommended volume of 100 µL for the convenience and efficiency of testing up to eight samples at a time.

Stock #	Unit
090-3336	EA



eppendorf

## Eppendorf Research® plus Pipette

The 100 to 1000 µL adjustable volume pipette works well for the preparation and transfer of 10, 100, 200, 400, 500, and 900 L volumes of 3M™ HRP Conjugate, 3M Standard Protein Concentrate, 3M Diluent, 3M Chromogenic Substrate Solution, 3M Stop Solution, and for transfer of liquid and clean-in-place (CIP) final rinse water samples.

Stock #	Unit
090-3334	EA

## Eppendorf Pipet Tip

Biopur, sterile, low retention, 2 to 200 µL, molded graduations for verification of pipetting volume. The smooth, hydrophobic surfaces ensure accurate pipetting. 96/ra; 5 ra/ca.

Stock #	Unit
090-3219	CA



## Pipet Tips

Universal fit 100 to 1000 µL, low retention, and sterile. 96/rack; 10 racks/ca.

Stock #	Unit
250-3050	CA



## SBR17 Shel Lab® Shaking/Reciprocating Water Bath

Accurate, easy to use, safe, and durable. Shel Lab high-performance water baths have a digital set/digital read P.I.D. temperature controller that maximizes rapid heat-up without temperature overshoot.

A P.I.D. microprocessor achieves precise temperature control regardless of how the unit is loaded. It has a unique lid design that allows condensation to drain back into the tank without spilling onto the work area. A warm air jacketed design radiates heat to the sides and bottom of the tank, eliminating hot spots.

Shaking speed is variable from 20 to 200 oscillations per minute and the stroke length can be adjusted to three separate settings: 0.5, 1.0, or 1.5" to minimize the chance of accidental spillage. 2-year limited warranty.

Stock #	Capacity	Temperature Range	Temperature Uniformity	Unit
586-3077	17 L	Ambient +5° to 80°C	± 0.2% at 37°C	EA



SHEL LAB®

## OHAUS® SCOUT® Portable Balance

Built to stringent OHAUS Standards, the rugged SCOUT is backed by a 2-year warranty on labor and parts. Ideal for laboratory and industrial applications, it comes in a slim, stackable design with large backlit LCD Screen. Features include superior overload protection, multiple weighing units and application modes, 600 g capacity, 0.01 g readability, and 4.7" round pan size. AC adaptor included, or use (4) AA batteries (not included).



Stock #	Screen	Unit
501-3404	Backlit LCD	CA

## OHAUS® Frontier™ Series Multi-Function Centrifuge

Reliable, compact, low-speed general purpose centrifuges. The standard rotor options can process both round and conical bottom tubes (including common blood tubes), and can also be adapted easily with accessories to process smaller tubes. Designed with convenient operation in mind, the Multi-Function Centrifuges feature an intuitive interface. The compact profile helps to save valuable bench space in labs. Rotor sold separately.



Stock #	Speed Range	Max Capacity	Dimensions	Power
500-3055	200 to 6,000 RPM	(Rotor) 6 x 50 mL	10.5" x 15.4" x 11.5"	AC Power (Included)

## Boekel™ Scientific Microplate Shaker

A reliable, programmable laboratory shaker for microplates. This unit provides regulated and timed shaking with an interchangeable tray for two or four microplates. Simple screw attachments allow quick and easy fitting of any standard depth 96- or 384-well plates, holding the plates securely in place. Standard platform for two microplates, included. Ideal for any laboratory. 2-year warranty.



Stock #	Speed Range	Capacity	Dimensions	Orbit	Timer
068-3102	250 to 1000 RPM	2 Plates	10.75"W x 10.25"D x 3.5"H	2 mm	1 min to 96 hrs



## Waring® WSG30 Commercial Heavy-Duty Electric Spice Grinder

Grind up the freshest ingredients effortlessly and in record time. Perfect for peppercorns, cinnamon sticks, star anise, nuts, and much more. Grinds samples finely in seconds. PULSE feature helps manage consistency of grind. Includes (3) dishwasher-safe, stainless steel grinding bowls and lids.



Stock #	Capacity (Dry Only)
733-3984	1.5 Cup

## Waring® WSG60 Wet/Dry Power Grinder

Perfect for peppercorns, cinnamon, nuts, garlic, herbs, and other dry and wet blends. Includes (2) fully removable and dishwasher-safe, stainless steel grinding bowls with convenient storage lids. Sealed clear-view operating lid allows for liquid processing up to 1.5 cups to make pastes, dressings, sauces, creams, and more. Features a commercial grade, 1-HP motor that runs at 20,000 RPM, and extra durable, stainless steel grinding blades.



Stock #	Capacity
733-3985	3 Cup