



***Food Allergy Research and Resource Program Analytical Laboratory  
Method Specifications  
Identified Test Method Cross-Reactivity or Interference  
(Information listed alphabetically by allergen)***

***Contact Laboratory Management for Assistance***

**ALMOND**

**Neogen Veratox® for Almond Allergen Quantitative Test (SOP-ALM-401): Product 700002574  
(Manufacturing catalog number change, previously identified as Item 8440 by manufacturer)**

Range of quantitation: 2.5 ppm - 25 ppm total almond

Controls provided: 0, 2.5, 5, 10 and 25 ppm

Identified cross-reactivity or interference: Apple seed, sunflower seed, and the pit/stone/seed of common *Prunus* genus foods such as apricot, cherries (including mahaleb cherry), nectarines, peaches and plums. This interference has been identified with the seed/stone/pit but has not been observed with the seedless fruit flesh.

**R-Biopharm Ridascreen® FAST Mandel/Almond (SOP-ALM-401b): Product R6901**

Range of quantitation: 2.5 ppm - 20 ppm almond

Controls provided: 0, 2.5, 5, 10 and 20 ppm

Identified cross-reactivity or interference: Fig, mulberry, black/brown mustard seed, pumpkin seed, apricot stone/seed/pit, mahaleb cherry pit/stone/seed. Interference with the stone/seed/pit of other plants of the genus *Prunus* are possible.

**BUCKWHEAT**

**FARRP Proprietary Assay for Buckwheat (SOP-BUCK-429):**

Range of quantitation: 2.5 ppm - 100 ppm buckwheat

Controls utilized: 0, 0.0975, 0.195, 0.39, 0.78, 1.56, 3.125, 6.25, 12.5, 25, 50, 100 ppm

No identified cross-reactivity or interference.

**CASHEW**

**BioFront Technologies MonoTrace® ELISA for Cashew (SOP-CASH-402BF): Item CA2-EK:**

Range of quantitation: 1 ppm - 40 ppm total cashew

Controls provided 0, 1, 4, 10, 20, 40 ppm

Identified cross-reactivity or interference: (Minimal) Pistachio, pecan, walnut.



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**CLAM**

**FARRP Proprietary Assay for Clam (SOP-CLAM-403):**

Range of quantitation: 2.5 ppm - 100 ppm clam protein

Controls utilized: 0, 0.78, 1.56, 3.125, 6.25, 12.5, 25, 50, 100, 250, 500, 1000 ppm

No identified cross-reactivity or interference.

**COCONUT**

**Neogen Veratox® for Coconut Allergen Quantitative Test (SOP-COC-452): Product 700002603  
(Manufacturing catalog number change, previously identified as Item 8560 by manufacturer)**

Range of quantitation: 1.0 ppm - 25 ppm coconut protein

Controls provided: 0, 1.0, 2.5, 5, 10 and 25 ppm

Identified cross-reactivity or interference: Brazil nut, cashew, cherry pit, hazelnut, oat, peach pit, poppy seed, pumpkin seed or sunflower seed. Potentially flax/linseed.

**CRUSTACEA**

**Neogen Veratox® for Crustacea Allergen Quantitative Test (SOP-CRUS-414): Product 700002598  
(Manufacturing catalog number change, previously identified as Item 8520 by manufacturer)**

Range of quantitation: 2.5 ppm - 25 ppm crustacea

Controls provided: 0, 2.5, 5, 10 and 25 ppm

No identified cross-reactivity or interference.

**EGG**

**Neogen Veratox® for Egg Allergen Quantitative Test (SOP-EGG-404): Product 700002575  
(Manufacturing catalog number change, previously identified as Item 8450 by manufacturer)**

Range of quantitation: 2.5 ppm - 25 ppm whole dried egg

Controls provided: 0, 2.5, 5, 10 and 25 ppm

No identified cross-reactivity or interference.



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**GLUTEN**

**Note regarding detection of gluten:** The gliadin test can detect gluten from wheat, rye and barley quantitatively with a limit of quantitation of 5 ppm or 10 ppm gluten depending on the test method selected (below). *Gluten consists of two groups of proteins (prolamins and glutelins) that are found in differing amounts in wheat, barley and rye. Approximately 50% of the gluten is available as gliadin, ppm gliadin results are multiplied by 2 and reported as ppm gluten.*

**R-Biopharm Ridascreen® Gliadin (SOP-BG5-419): Product R7001**

Limit of Quantitation: 2.5 ppm gliadin corresponding to 5 ppm (0.0005%) gluten

Range of quantitation: 2.5 ppm - 40 ppm gliadin (5.0 ppm - 80 ppm gluten)

Controls provided: 0, 5, 10, 20, 40 and 80 ppm

**Note:** The gliadin test can detect gluten from wheat, rye and barley quantitatively with a limit of quantitation of 5 ppm gluten.

No identified cross-reactivity or interference.

**R-Biopharm Ridascreen® FAST Gliadin (SOP-BG10-420): Product R7002**

Limit of Quantitation: 5.0 ppm gliadin corresponding to 10 ppm (0.0010%) gluten

Range of quantitation: 5.0 ppm - 40 ppm gliadin (10 - 80 ppm gluten)

Controls provided: 0, 10, 20, 40, 80 ppm

**Note:** The FAST gliadin test can detect gluten from wheat, rye and barley quantitatively with a limit of quantitation of 10 ppm gluten.

No identified cross-reactivity or interference.



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**GLUTEN Continued**

**R-Biopharm Ridascreen® Gliadin Competitive (SOP-BGP-421): Product R7021**

Limit of Quantitation: 5.0 ppm gliadin corresponding to 10 ppm (0.0010%) gluten

Range of quantitation: 10 ppm - 270 ppm gluten

Controls provided: 0, 10, 30, 90, 270 ppm hydrolysate (mixture wheat, rye and barley)

**Note:** The competitive peptide gliadin test can detect gluten peptides from wheat, rye and barley quantitatively with a limit of quantitation of 10 ppm gluten.

No identified cross-reactivity or interference.

**Neogen Veratox® Gliadin R5 (SOP-NGR5-422): Product 700002592**

**(Manufacturing catalog number change, previously identified as Item 8510 by manufacturer)**

Limit of Quantitation: 2.5 ppm gliadin corresponding to 5 ppm (0.0005%) gluten

Range of quantitation: 2.5 ppm - 40 ppm gliadin (5.0 ppm - 80 ppm gluten)

Controls provided: 0, 2.5, 5, 10, 20 and 40 ppm

**Note:** The gliadin test can detect gluten from wheat, rye and barley quantitatively with a limit of quantitation of 5 ppm gluten.

No identified cross-reactivity or interference.

**HAZELNUT**

**Neogen Veratox® for Hazelnut Allergen Quantitative Test (SOP-HAZ-405): Product 700002564**

**(Manufacturing catalog number change, previously identified as Item 8420 by manufacturer)**

Range of quantitation: 2.5 ppm - 25 ppm total hazelnut

Controls provided: 0, 2.5, 5, 10 and 25 ppm

Identified cross-reactivity or interference: Pecan and walnut.



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**HISTAMINE**

**Neogen Veratox® for Histamine (SOP-HIST-406): Product 700002748**  
**(Manufacturing catalog number change, previously identified as Item 9505 by manufacturer)**

Range of quantitation: 2.5 ppm - 40 ppm histamine  
Controls provided: 0, 2.5, 5, 10, 20 and 50 ppm

No identified cross-reactivity or interference.

**LUPINE**

**R-Biopharm Ridascreen® FAST Lupine (SOP-LUP-423b): Product R6102**

Range of quantitation: 1.0 ppm - 27 ppm lupine protein  
Controls provided: 0, 1, 3, 9 and 27 ppm

Identified cross-reactivity or interference: chickpea/garbanzo bean, soy flour, roast hazelnut, curcuma/turmeric/arrowroot, curry and fenugreek.

**MACADAMIA**

**3M™ Neogen Macadamia Protein ELISA (SOP-MAC-451): Product E96MAC**  
**(formerly 3M Macadamia Protein ELISA)**

Range of quantitation: 0.3 ppm - 27 Macadamia Protein  
Controls: 0, 0.3, 1, 3, 9, 27 ppm

No identified cross-reactivity or interference.

**MILK**

**Neogen Veratox® for Total Milk Allergen Quantitative Test (SOP-MILK-407): Product 7000002577**  
**(Manufacturing catalog number change, previously identified as Item 8470 by manufacturer)**

Range of quantitation: 2.5 ppm - 25 ppm non-fat dried milk  
Controls provided: 0, 2.5, 5, 10 and 25 ppm

No identified cross-reactivity or interference.



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**MUSTARD**

**Neogen Veratox® for Mustard Allergen Quantitative Test (SOP-MUST-408): Product 700002561  
(Manufacturing catalog number change, previously identified as Item 8400 by manufacturer)**

Range of quantitation: 2.5 ppm - 25 ppm mustard

Controls provided: 0, 2.5, 5, 10 and 25 ppm

Identified cross-reactivity or interference: Brassicaceae family (e.g. canola, rapeseed, broccoli seed, etc.), wild mustard seed.

**PEANUT**

**Neogen Veratox® for Peanut Allergen Quantitative Test (SOP-PNUT-409): Product 700002569  
(Manufacturing catalog number change, previously identified as Item 8430 by manufacturer)**

Range of quantitation: 2.5 ppm - 25 ppm total peanut

Controls provided: 0, 2.5, 5, 10 and 25 ppm

No identified cross-reactivity or interference.

**PECAN**

**BioFront Technologies MonoTrace® Pecan ELISA (SOP-PEC-412BF): Product PC4-EK**

Range of quantitation: 1 ppm - 40 ppm total pecan

Controls provided 0, 1, 4, 10, 20, 40 ppm

Identified cross-reactivity or interference: Walnut, adzuki bean (red bean/English red mung bean).

**PISTACHIO**

**BioFront Technologies MonoTrace® Pistachio ELISA (SOP-PIST-413BF): Product PV1-EK**

Range of quantitation: 1 ppm - 40 ppm total pistachio

Controls provided 0, 1, 4, 10, 20, 40 ppm

Identified cross-reactivity or interference: (Minimal) pecan and walnut.



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**SESAME**

**R-Biopharm Ridascreen® FAST Sesame (SOP-RBS-415b): Product R7202**

Range of quantitation: 2.5 ppm - 20 ppm sesame

Controls provided: 0, 2.5, 5, 10 and 20 ppm

No identified cross-reactivity or interference.

**SOY**

**Neogen Veratox® for Soy Allergen Quantitative Test (SOP-SOY-416): Product 700002563  
(Manufacturing catalog number change, previously identified as Item 8410 by manufacturer)**

Range of quantitation: 2.5 ppm - 25 ppm soy flour

Controls provided: 0, 2.5, 5, 10 and 25 ppm

No identified cross-reactivity or interference.

**R-Biopharm Ridascreen® FAST Soya (SOP-SOY-416RB): Product R7102**

Range of quantitation: 2.5 ppm - 20 ppm soy protein

Controls provided: 0, 2.5, 5, 10 and 20 ppm

Identified interference or interference: "Beans", Legumes of the tribe Phaseoleae, (i.e., Adzuki, Butter, Kidney, Lima, Mung, Pinto, Red etc.), genus Vicia (fava beans), dried peas, pea flour and/or peanut.

**WALNUT**

**BioFront Technologies MonoTrace® Walnut ELISA (SOP-WAL-418BF): Product WJ4-EK**

Range of quantitation: 1 ppm - 40 ppm total walnut

Controls provided 0, 1, 4, 10, 20, 40 ppm

Identified cross-reactivity or interference: Pecan, nutmeg, poppy seed and rape seed.