



**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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Method Specifications
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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

No identified cross-reactivity or interference.



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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™ Macadamia Protein ELISA (SOP-MAC-451): Product E96MAC

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 70002561
(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 70002569
(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.