

Natural Toxins — Validated and Verified Commodities, June 2024



Veratox [®] and Agri-Screen [®]							
Aflatoxin — 8030			Aflatoxin HS — 8031		DON — 8335/8331		
Alfalfa hay	Corn/soy blend ¹	Pecans	Barley	Rice hulls	Alfalfa	Hay#	Water, backset/recycled*
Alfalfa meal	Cornmeal ¹	Pet food*	Beet pulp*	Soy flour	Barley ¹	Haylage#	Wheat ¹
Alfalfa pellets	Cottonseed ^{1•}	Pine nuts	Chili powder#	Soy germ meal	Barley, lightly pearled	Kamut (khorasan wheat)	Wheat, waxy
Almonds	Cottonseed meal	Pistachio nuts	Coconut	Soybean meal ¹	Barley, malted ^{1*}	Lentils	Wheat bran ¹
Amaranth	Cottonseed meal, ammoniated*	Popcorn ¹	Copra	Wheat ¹	Barley flour	Lentils, red	Wheat bran aleurone ¹
Barley ¹	DDGS [•]	Poppy seeds	Corn	Wheat midds	Barley flour, malted ¹	Millet	Wheat flour ¹
Barley, lightly pearled ¹	DDGS syrup*	Potato, with skin, powder*	Corn, ammoniated		Barley silage	Milo (grain sorghum)	Wheat flour, 2 nd clear ¹
Barley flour	DDGS wet cake*	Potato, white	Corn bran ¹		Beans, fava	Oat fiber	Wheat germ
Barley flour, malted ¹	Figs	Potato starch	Corn germ meal		Beet pulp*	Oat flour	Wheat middlings ¹
Beans, black*	Flaxseed meal	Pumpkin seeds	Corn gluten meal		Canary seed	Oat hulls*	
Beans, fava	Flour, raw	Quinoa	Corn grits		Canola*	Oats ¹	
Beans, kidney	Hazelnuts	Rice ¹	Corn starch		Canola meal	Pea fiber	
Beet pulp*	Hemp seed	Rice, milled ¹	Corn/soy blend		Chickpeas	Pea flour	
Brazil nuts	Hominy	Rice bran ¹	Cornmeal		Corn ¹	Peas, green and yellow	
Calcium carbonate	Kamut (khorasan wheat)	Rice gluten	Cottonseed meal		Corn bran ¹	Pet food*	
Canary seeds	Lentils	Rice hulls	DDGS ¹ (special procedure)		Corn cob*	Popcorn	
Canola*	Macadamia nuts	Rye, raw ¹	Figs		Corn germ meal ^{1*}	Poppy seeds	
Canola meal	Millet ¹	Rye flour ¹	Flax meal, brown		Corn gluten feed*	Potato, white	
Cashews	Milo (grain sorghum) ¹	Sesame seeds	Flax meal, yellow		Corn gluten meal ^{1*}	Potato, with skin, powder*	
Chickpeas	Nutmeg	Sorghum (grain) ¹	Flaxseed meal		Corn grits ¹	Pumpkin seeds	
Choline chloride	Oat fiber	Soy flour	Hominy		Corn oil	Quinoa	
Citric pulp	Oat flour	Soy germ meal	Kamut (khorasan wheat)		Corn screenings	Rice ¹	
Coconut	Oat hulls*	Soy hydrolysate	Lentils		Corn silage#	Rice, rough ¹	
Copra	Oats	Soy natto	Milo (grain sorghum)		Corn starch	Rice gluten	
Corn ¹	Oats, naked	Soy pellet	Oat fiber		Corn steep ²	Rice hulls	
Corn, ammoniated	Oats, rolled	Soybean meal ¹	Paprika		Corn/soy blend	Rye, raw ¹	
Corn bran ^{1*}	Pea fiber	Soybeans ¹	Peanut butter		Cornmeal	Rye flour ¹	
Corn germ meal ¹	Pea flour	Sunflower meal	Peanut hulls		Cottonseed	Soy flour	
Corn gluten meal ^{1*}	Peas, green	Sunflower seeds	Peanut meal#		DDGS*	Soy hydrolysate	
Corn grits ¹	Peas, yellow	Tapioca	Peanuts, raw or roasted#		DDGS syrup*	Soybean meal	
Corn oil	Peanut hulls	Walnuts	Pet food*		DDGS wet cake*	Sunflower meal	
Corn silage#	Peanut meal#	Wheat ¹	Popcorn ¹		Flaxseed, brown	Sunflower seeds	
Corn starch	Peanuts, honey roasted	Wheat bran aleurone ¹	Quinoa		Flaxseed, golden#	Tapioca	
Corn steep*	Peanuts, raw or roasted#	Wheat flour, 2 nd clear ¹	Rice ¹		Flaxseed meal	Triticale	
Corn syrup	Peanuts, salted	Wheat midds ¹	Rice bran ¹		Flour, raw	TMR#	

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Veratox and Agri-Screen

Fumonisin — 8830/8835		Zearalenone — 8110		Ochratoxin — 8610		Ochratoxin Grain — 8630	T-2/HT-2 — 8230
Barley	Rye	Barley	Sesame	Apricots	1:4 Extraction in 70%	Barley	Barley
Beet pulp*	Soy hydrolysate	Canola*	Soy pellets	Black chia	MEOH — five-minute shake	Beans, navy	Corn
Corn	Soybean meal	Canola meal*	Soybean	Cascara	Barley	Buckwheat	Corn flour
Corn germ meal*	Soybeans	Corn	Soybean hulls	Coffee, green	Oat	Corn	Corn gluten meal
Corn gluten meal*	Sunflower meal	Corn gluten meal*	Soybean meal	Corn	Wheat	Corn gluten meal	Corn steep ²
Corn steep ²	Wheat	Corn silage	Sunflower seeds	Dates	1:4 Extraction in 70%	Kamut (khorasan wheat)	DDGS wet cake*
Corn syrup	Wheat bran	Corn syrup	Tapioca	Figs	MEOH — two-minute blend	Millet	Kamut (khorasan wheat)
Corn/soy blend	*Blending extraction	Cottonseed	Wheat	Kiwicha	Rice flour	Oat	Lentils, red
Cornmeal	Sunflower seeds, black*	DDGS*	Wheat bran*	Oat fiber*#	Rice gluten	Peas	Oat hulls, whole*
Cottonseed		DDGS wet cake		Oat flour	Rice hulls	Rye	Oats
DDGS*		Kamut (khorasan wheat)		Pea fiber	Potato, white	Sorghum	Peas, green and yellow
DDGS wet cake*		Oat flour		Popcorn	Tapioca	Wheat	Pea fiber
Kamut (khorasan wheat)		Oat hulls*		Poppy seeds			Potato, white
Millet		Oats		Pumpkin seeds			Rice, brown
Milo (grain sorghum)		Oats, naked		Quinoa			Rice flour, white
Oat hulls*		Oats, rolled		Raisins			Rice gluten
Oats		Pea fiber		Rice			Rice hulls
Oats, naked		Pet food*		Rye			Rye
Pea fiber		Popcorn		Soy hydrolysate			Soy
Pet food*		Potato		Soybean meal			Soybean meal
Popcorn		Rice		Soybeans			Soybean hulls
Potato, white		Rice, brown		Sunflower meal			Tapioca
Rice, rough		Rice flour, white		Wheat bran*			Wheat
Rice gluten		Rice hulls					Wheat bran*
Rice hulls		Rye					Wheat flour

Veratox MAX

Total Aflatoxin — 8035			HS Total Aflatoxin — 8032	Zearalenone — 8135	
Barley, lightly pearled ¹	DDGS ¹	Rye ¹	Corn	Corn	Soybean
Corn ¹	Peanuts, raw	Soybean ¹		Oat flour	Wheat
Corn gluten meal ¹	Peanuts, roasted	Soybean meal		Popcorn	
Cornmeal	Popcorn ¹	Wheat ¹		Rice flour	

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Reveal[®] Q+

Aflatoxin — 8085			DON — 8385		
1:3 Extraction	Cottonseed, loose	Rapeseed	Wheat starch	Lentil fiber	Sweet potato pellets
Beans, pinto	Cottonseed pellets	Rice	1:5 Extraction	Lentils	Sweet potato powder
DDGS# ¹	Cracked corn ¹	Rice, brewer's ¹	Corn gluten feed*	Linseed, brown	Timothy hay pellets
DDGS wet cake	Dehydrated potato flakes	Rice, broken	Oat flour*	Millet	Triticale
Oat fiber	Flax oil	Rice, brown	Water, heavy steep*	Oat fiber	Wheat ¹
Peanut paste	Flaxseed	Rice, rough	1:8 Extraction	Oat groats	Wheat, red spring*
Peanuts, roasted/salted	Glutinous rice flour	Rice bran	Yeast, brewer's	Oatmeal	Wheat, waxy
Pecan hulls	Grain distiller's dried yeast*	Rice bran, defatted	1:9 Extraction	Oats ¹	Wheat bran
1:4 Extraction	Heavy steep water*	Rice flour	Linseed, gold*	Oats, rolled	Wheat flour ¹
Corn gluten feed	Hemp seed	Rice hulls	1:10 Extraction	Pea fiber	Wheat flour, red dog
1:5 Extraction	Hominy	Rye grain	Alfalfa	Pea flour	Wheat germ
Alfalfa	Kiwicha	Rye, whole*	Barley ¹	Pea protein	Wheat midds ¹
Almonds, raw	Lentils	Sesame	Barley, malted ¹	Pea starch	
Beet powder	Lentil fiber	Sesame, white	Barley, malted, black	Peas	
Beans, black	Linseed, brown (LOD 10 ppb)	Sorghum/milo ¹	Barley, pearled ¹	Peas, dried	
Beans, carioca	Linseed, gold	Soy flour	Beans, fava	Peas, yellow	
Beans, navy	Macadamia nuts	Soy hulls	Beans, navy	Pet food, canned	
Buckwheat	Millet, red	Soy pellet	Beans, pinto	Potato protein	
Buckwheat groats*	Millet, white	Soy protein concentrate*	Beet pulp	Quinoa	
Cashews	Oats	Soybean oil	Blueberries, dried	Rapeseed	
Cashew butter	Oats, rolled	Sunflower nuggets	Buckwheat	Rice, brewer's	
Cassava flour	Oat flour	Sunflower seeds	Buckwheat groats*	Rice, broken	
Chia, black	Oat groats	Sunflower seeds, black	Canary seed	Rice, brown	
Chia seed*	Peas, dried	Sweet potato pellets	Chickpea fiber	Rice bran, defatted	
Chickpeas	Peas, green and yellow	Sweet potato powder	Corn gluten feed*	Rice flour	
Chickpea fiber	Pea fiber	Wheat	Corn gluten meal ¹ *	Rice, rough ¹	
Coconut	Pea flour	Wheat germ oil	Corn ¹	Rye, whole*	
Corn ¹	Pea protein*	Wheat midds	Corn oil*	Safflower	
Corn flaking grits ¹	Pea starch	Wheat starch	Corn silage*	Sesame, white	
Corn germ meal	Peanut butter	1:6 Extraction	DDGS ¹ *	Sorghum/milo	
Corn gluten meal ¹ *	Peanut hulls#	Flaxseed, brown	DDGS syrup*	Soybean	
Corn screenings ¹	Peanut hull pellets#	Soy flour	DDGS wet cake*	Soybean meal	
Corn silage*	Pearled barley	Soybean meal*	Flaxseed*	Soy flour	
Corn starch ¹	Pistachios, raw	Trictacle*	Grass silage*	Soy hulls	
Corn steep*#	Popcorn ¹	75% Ethanol Extraction	Haylage*	Spelt	
Corn/soy blend ¹	Potato powder	Peanut pellets	Hominy*	Sunflower nugget	
Cornmeal ¹	Potato starch		Kamut (khorasan wheat)	Sunflower meal*	
Cottonseed#	Quinoa		Kiwicha	Sunflower seeds	

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Reveal Q+					
Fumonisin — 8885		Zearalenone — 8185		T-2/HT-2 — 8285	Ochratoxin — 8685
1:3 Extraction	Canola meal	1:3 Extraction, Curve #1 — Corn	Rye grain	1:7 Extraction	1:3 Extraction
Beans, navy	Chia seeds	Corn ¹	Soy flour ¹ #	Lentils, green	Chickpeas
Corn protein concentrate	Chickpeas	DDGS ¹ #	Soy hulls	1:9 Extraction	DDGS* (LOD 10 ppm)
Lentil fiber	Condensed distillers solubles	1:3 Extraction, Curve #2 — Wheat	Soy protein concentrate	Lentils, red	1:4 Extraction
Milo/sorghum	Corn ¹	Beans, navy	Soybean ¹	Millet	Barley
Oat fiber	Corn, flaked	Chia seeds	Soybean meal#	Oat, groats	Beans, pinto
Rice, brewer's ¹	Corn cobs	Chickpeas	Sunflower seeds	1:10 Extraction	Buckwheat
Rice, parboiled	Corn gluten feed*	Corn, purple	Wheat ¹	Barley	Canola
Rice bran, brown	Corn grits	Lentils, green	Wheat flour	Beans, navy	Chia seeds
Rice hulls	Corn oil	Oats	Wheat grass	Beans, pinto	Chickpea fiber
Sorghum	Cornmeal	Oat groats	1:6 Extraction, Curve #1, Multiply x2	Chickpeas	Corn
Soy hulls	Lentils, green and red	Pea protein	Corn gluten meal	Chickpea fiber	Corn oil (pH adjust)
1:4 Extraction	Millet, golden German	Rice, brown		Corn	Corn silage*
Barley	Oatmeal	Rice flour, glutinous		Corn silage#	Flaxseed*
Beet pulp	Pea fiber	Wheat starch		DDGS*	Grass silage*
Cassava	Pea starch	1:4 Extraction, Curve #2 — Wheat		DDGS syrup*	Kamut (khorasan wheat)
Chickpeas	Peanuts, blanched	Barley, pearled		DDGS wet cake*	Lentils, red
Corn gluten meal*	Peas, green and yellow	Millet		Grass silage#	Linseed*
DDGS*	Potato flakes, dehydrated	Rice, brewer's		Lentil fiber	Linseed, brown
DDGS syrup*	Rice, broken	Rice, brown		Milo (grain sorghum)	Linseed, gold
DDGS wet cake*	Rice bran	1:5 Extraction, Curve #2 — Wheat		Oats	Millet, in shell
Flaxseed	Rice flour, brown	Alfalfa		Pea fiber	Milo/sorghum
Hominy	Soy protein concentrate*	Barley#		Pea protein	Oat groats
Millet	Soybean meal*	Barley, pearled#		Pea starch	Oats
Oat flakes	Sunflower meal	Beans, pinto		Peas, green and yellow	Peas*
Oat flour*	Wheat ¹	Canola meal#		Rice	Peas, green and yellow
Oat groats	Wheat flour	Chickpeas		Rice bran flour	Pea fiber
Oats	1:6 Extraction	Lentils, red		Wheat	Pea starch
Rice, rough ¹	Yeast, brewer's	Milo/sorghum		2x Correction	Quinoa
Wheat bran		Oat fiber		Beet pulp pellets	Rice*
Wheat midds		Oat flour		1:20 Extraction	Soybean meal
Soybeans		Oats, rolled		Soy hulls	Triticale
1:5 Extraction		Pea fiber			Wheat
Alfalfa		Pea starch			1:6 Extraction
Barley, cracked curled		Rice, brewer's#			Soy hulls
Beans, pinto		Rice, rough ¹ #			

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Reveal Q+ MAX

Aflatoxin — 8088			DON — 8388		
1:3 Extraction	Corn cobs	Peanut meal	1:4 Extraction	Corn starch	1:7 Extraction
Corn gluten meal	Corn germ	Peanut paste	Condensed distillers solubles	Lentils, green	Rice flour, brown
Corn screenings	Corn grits, flaking	Pumpkin seeds, Chinese	Flaxseed	Lentils, red	
Pecans	Corn silage#	Sesame seeds, natural*	Germ paste	Oatmeal	
Potato, sweet	Cornmeal	1:7 Extraction	Oat flakes	Oats	
Wheat gluten	Cottonseed#	Barley, cracked curled	Oat groats	Oats, white	
1:3 Extraction, 1.6x Correction Factor	Cottonseed meal#	Corn oil	Sorghum	Oats, whole	
DDGS	DDGS syrup	Lentils	1:5 Extraction	Palm kernel	
1:4 Extraction	Grass silage**	Pea protein	Alfalfa	Pea fiber	
Beans, navy	Hominy	Peas	Barley	Pea starch	
Canola meal	Oats	1:8 Extraction	Barley, cracked curled	Pea protein	
Pine nuts	Pistachio nuts	Brazil nuts	Barley, malted	Peanuts, blanched*	
Soybean meal	Popcorn ¹	Chia seeds, black	Beans, navy	Peas	
Wheat midds	Rice flour, brown	Corn starch	Beans, pinto	Peas, yellow	
1:5 Extraction	Rice, brown	Hazelnuts	Bread crumbs	Quinoa	
Barley, cut**	Rice, milled	Pea fiber	Buckwheat	Rice, brown	
Barley, dehulled	Sorghum	Pea starch	Canola meal	Rice, rough*	
Barley, lightly pearled ¹	Water, heavy steep	Pumpkin seeds, Mexican	Cassava	Rice hulls	
Barley, malted	Wheat	Rice, brewer's	Chia seed ²	Rye	
Barley, whole	Wheat flakes, red**	Rice, white ¹	Chickpeas	Sorghum flour	
Beans, black	1:6 Extraction	Sunflower kernels	Corn	Soy hulls	
Beans, carioca	Almond, raw	1:10 Extaction	Corn, flaked	Soybeans	
Beans, pinto	Almond, roasted	Coconut oil	Corn bran	Soybean meal	
Cashew nuts	Almond, salted	Macadamia nuts	Corn cobs	Timothy hay pellets	
Cassava	Corn, flaked	Quinoa, white	Corn germ	Wheat	
Chickpea fiber	Millet	Sesame seeds, hulled	Corn gluten feed	Wheat bran	
Condensed distillers solubles	Millet, golden German	1:10 Extaction + 2 MAX packs	Corn gluten meal	Wheat flour	
Corn ¹	Peanuts	Chickpeas	Corn husk	Wheat midds	
Corn, purple	Peanut butter	Grass silage**	Corn oil DDGS		

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Reveal Q+ MAX

Ochratoxin — 8688		Zearalenone — 8188		T-2/HT-2 — 8288	
Test Method 3 in Insert	Corn germ	1:3 Extraction, Curve #1	Peas, yellow	1:2 Extraction	Corn silage
Barley	Corn starch	Millet	Rice, rough	Corn gluten meal ²	DDGS
Beans, black	Germ paste	1:4 Extraction, Curve #1	Rice hulls	1:3 Extraction	Hominy
1:4 Extraction with Centrifugation	Gluten	Barley, cracked curled	Sorghum	Alfalfa	Lentils, green
Coffee, green	Millet	Beans, pinto	Soybean meal	Chia seed	Lentils, red
Oat groats	Pea starch	Palm kernel	Wheat	Quinoa	Stevia, leaf
Oats	Rice	1:5 Extraction, Curve #1	Curve #1, 3x Correction Factor	1:4 Extraction	Stevia, liquid
1:3 Extraction, Curve #1	Sorghum	Alfalfa	Corn silage	Beans, navy	Stevia, powder
Peas, yellow	Starch	Barley	1:6 Extraction, Curve #1	Corn starch	Oats
Pulp kernel	Wheat	Beans, navy	Rice bran	Flaxseed	Oats, white
1:4 Extraction, Curve #1	Wheat midds	Beet pulp	1:7 Extraction, Curve #1	Millet	Pea starch
Barley	1:5, Curve #2	Chickpeas	Rice, brown	Oat fiber	Pea protein
Beans, black	Corn	Corn cobs	1:8 Extraction, Curve #1	Oat groats	Peas, yellow
Lentils, green	Pea fiber	Haylage	Rice, brewer's	Sorghum	Peas, green (LOD 125 ppb)
Peas, green	Wheat bran	Lentils, green	1:10 Extraction, Curve #1	Soybean meal	Rice, brown*
Quinoa	1:6 Extraction, Curve #1	Lentils, red	Soybeans	1:5 Extraction	Rice bran
1:5 Extraction, Curve #1	Barley, cracked curled	Oat fiber	1:5 Extraction, Curve #2	Barley	Rice, rough
Stevia, powder	Chickpeas	Oat groats	Corn	Barley, cracked curled	Wheat
1:5, Curve #1	1:7 Extraction, Curve #1	Oats	Corn gluten meal	Beans, pinto	1:10 Extraction, 2 MAX packets
Beans, navy	Stevia, liquid	Oats, white	1:8 Extraction, Curve #2	Chickpea fiber (must centrifuge)	Pea fiber
Buckwheat		Pea fiber	Stevia, liquid	Chickpeas	
Chickpea fiber (must centrifuge)		Pea protein		Corn	
Coconut oil		Pea starch		Corn cobs	

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Natural Toxins — Validated and Verified Commodities, June 2024 Revisions

Added

Veratox DON — 8335/8331

- Cottonseed

Veratox Fumonisin — 8830/8835

- Cottonseed

Veratox Zearalenone — 8110

- Cottonseed

Reveal Q+ MAX Ochratoxin — 8688

- Stevia, liquid (1:7 Extraction, Curve #1)
- Stevia, powder (1:5 Extraction, Curve #1)

Reveal Q+ MAX Zearalenone — 8188

- Stevia, liquid (1:8 Extraction, Curve #2)

Reveal Q+ MAX T-2/HT-2 — 8288

- Stevia, leaf (1:5 Extraction)
- Stevia, liquid (1:5 Extraction)
- Stevia, powder (1:5 Extraction)

For the purposes of this report, the following terms are defined as follows:

Validated: Commodities validated internally on Neogen toxin methods by comparing to HPLC and/or stated MCM values. Neogen toxin methods were conducted over multiple days, multiple analysts, and multiple conditions and successfully met acceptance criteria.

Verified: Customer commodity samples successfully tested through Neogen's internal Matrix Feasibility Request (MFR) process. Samples tested on Neogen toxin methods and compared to HPLC results (if naturally contaminated) or spiked with known level of target (for uncontaminated samples).

User Responsibility

Users should review specific product instructions and information by visiting our website at www.Neogen.com, or by contacting your local Neogen representative or authorized distributor for more information. It is the user's responsibility in selecting any test method or product to evaluate a sufficient number of samples to satisfy the user that the chosen test method meets the user's criteria. It is also the user's responsibility to determine that any test methods and results meet its customers' and suppliers' requirements.

