

AlerTox Allergen ELISA

ELISA test for the quantitative determination of allergens in food

KT-5914 AlerTox Lupine
KT-5908 AlerTox Sesame
KT-5915 AlerTox Mustard
KT-5916 AlerTox Cashew
KT-5906 AlerTox Soy
KT-5909 AlerTox Walnut
KT-5905 AlerTox Peanut
KT-5907 AlerTox Hazelnut
KT-5910 AlerTox Almond

KT-5917 AlerTox Pistachio
KT-5904 AlerTox Egg
KT-5757 AlerTox Lysozyme
KT-5759 AlerTox Ovalbumin
KT-5761 AlerTox Casein
KT-5918 AlerTox Milk
KT-5919 AlerTox BLG
KT-5903 AlerTox Crustacean
KT-5920 AlerTox Fish

Ed.2 - June 2014

1. Product Description

ELISA test for the quantitative determination of allergens in food.

All Allergen ELISA tests of the AlerTox series are working on the principle of a quantitative sandwich ELISA.

The concentration of the antigen is directly proportional to the colour intensity of the test sample.

2. Sensitivity/Reliability/Specificity

- Limits

Kit	LOD	LOQ	Kit	LOD	LOQ
AlerTox Lupine	0.2 ppm	2 ppm	AlerTox Pistachio	0.13 ppm	1 ppm
AlerTox Sesame	0.2 ppm	2 ppm	AlerTox Egg	0.05 ppm	0.4 ppm
AlerTox Mustard	1 ppm	2 ppm	AlerTox Lysozyme	2 ppb	25 ppb
AlerTox Cashew	0.2 ppm	2 ppm	AlerTox Ovalbumin	4 ppb	25 ppb
AlerTox Soy (STI)	16 ppb	50 ppb	AlerTox Casein	0.05 ppm	0.20 ppm
AlerTox Walnut	0.6 ppm	2 ppm	AlerTox Milk	0.05 ppm	0.5 ppm
AlerTox Peanut	0.3 ppm	1 ppm	AlerTox BLG	1.5 ppb	10 ppb
AlerTox Hazelnut	0.3 ppm	1 ppm	AlerTox Crustacean	1 ppb	20 ppb
AlerTox Almond	0.2 ppm	0.5 ppm	AlerTox Fish	1.4 ppb	4 ppb

- Quantification ranges

Kit	Range	
AlerTox Lupine	(30-15-5-2-0 ppm)	Dyed rose; ready-to-use
AlerTox Sesame	(20-10-4-2-0 ppm)	Dyed rose; ready-to-use
AlerTox Mustard	(50-25-10-2-0 ppm)	Dyed rose; ready-to-use
AlerTox Cashew	(50-25-10-2-0 ppm)	Dyed rose; ready-to-use
AlerTox Soy (STI)	(600-300-150-50-0 ppb)	Dyed rose; ready-to-use
AlerTox Walnut	(50-15-5-2-0 ppm)	Dyed rose; ready-to-use
AlerTox Peanut	(30-15-5-1-0 ppm)	Dyed rose; ready-to-use
AlerTox Hazelnut	(40-15-5-1-0 ppm)	Dyed rose; ready-to-use
AlerTox Almond	(10-5-2-0.5-0 ppm)	Dyed rose; ready-to-use
AlerTox Pistachio	(25-12.5-5-1-0 ppm)	Dyed rose; ready-to-use
AlerTox Egg	(8-4-2-0.5-0 ppm)	Dyed rose; ready-to-use
AlerTox Lysozyme	(250-125-50-25-0 ppb)	Dyed rose; ready-to-use
AlerTox Ovalbumin	(500-250-100-25-0 ppb)	Dyed rose; ready-to-use
AlerTox Casein	(5-2.5-1-0.20-0 ppm)	Dyed blue; 100X concentrate
AlerTox Milk	(10-5-2-0.5-0 ppm)	Dyed blue; 100X concentrate
AlerTox BLG	(300-150-50-10-0 ppb)	Dyed rose; ready-to-use
AlerTox Crustacean	(400-200-80-20-0 ppb)	Dyed rose; ready-to-use
AlerTox Fish	(100-50-20-4-0 ppb)	Dyed rose; ready-to-use

- **Recovery rates** (Tested in typically matrices) O. juice = Orange juice

AlerTox Lupine	Sausage: 99%	Biscuit: 113%	O. juice: 104%	Ketchup: 98%	Croquette: 111%
AlerTox Sesame	Sausage: 109%	Cracker: 109%	Inst.-soup: 110%	Dressing: 93%	---
AlerTox Mustard	Sausage: 98%	Can.-soup: 96%	Inst.-soup: 80%	Dressing: 76%	Herb-mix: 78%
AlerTox Cashew	Cookies: 109%	Cornflakes: 98%	Ice cream: 93%	Chocolate: 102%	---
AlerTox Soy (STI)	Cookies: 106%	Cornflakes: 100%	Ice cream: 77%	Chocolate: 77%	Sausage: 96%
	Inst.-soup: 90%				
AlerTox Walnut	Cookies: 103%	Cornflakes: 106%	Ice cream: 87%	Chocolate: 60%	---
AlerTox Peanut	Cookies: 101%	Cornflakes: 100%	Ice cream: 89%	Chocolate: 110%	---
AlerTox Hazelnut	Cookies: 99%	Cornflakes: 101%	Ice cream: 90%	Chocolate: 83%	---
AlerTox Almond	Cookies: 90%	Cereals: 105%	Ice cream: 77%	Chocolate: 68%	---
AlerTox Pistachio	Cookies: 94%	Cornflakes: 96%	Ice cream: 89%	Chocolate: 81%	Sausage: 90%
AlerTox Egg	Cookies: 85%	Pasta: 91%	Biscuit: 83%	Chocolate: 82%	Sausage: 98%
AlerTox Ovalbumin	Red wine: 93%	Rosé wine: 102%	White wine: 100%	---	---
AlerTox Lysozyme	Red wine: 91%	Rosé wine: 90%	White wine: 100%	---	---
AlerTox Casein	Red wine: 103%	Rosé wine: 102%	White wine: 102%	Chocolate: 86%	Sausage: 90%
	Cookies: 85%	Bread: 80%			
AlerTox Milk	White wine: 122%	Bread: 110%	Sausage: 88%	Chocolate*: 99%	*) on soy base
AlerTox BLG	Cookies: 88%	Cornflakes: 94%	Sausage: 107%	Chocolate: 86%	White wine: 82%
AlerTox Crustacean	Cracker: 90%	Soy sauce: 90%	Fish: 93%	Meat: 97%	---
AlerTox Fish	Red wine: 103%	Soup: 117%	Asia Sauce: 103%	Cracker: 99%	Worcester S.: 112%
	Spring Roll: 93%	Surimi: 114%			

3. Reagents

Item.	Description	96 well size
	Microtiter strips (8 wells each) coated with anti-ovalbumin antibodies.	
1	Ready to use.	12 strips
2	5 AlerTox Standards. Ready to use.	5 x 3 mL
or 2a	5 AlerTox Standards; 100X concentrated (only Casein-E & Milk-E)	5 x 1 mL
3	Conjugate solution. Ready to use.	1 x 15 mL
4	Substrate solution (TMB). Ready to use.	1 x 15 mL
5	Stop Solution, containing H ₂ SO ₄ . Ready to use.	1 x 15 mL
6	Extraction & Sample Dilution Buffer 10X.	4 x 30 mL
or 6a	Extraction & Sample Dilution Buffer 5X (only Casein-E & Milk-E)	4 x 60 mL
7	Washing Solution 10x.	2 x 60 mL

4. Storage/Stability

- All kit components should be kept at 2–8°C in the dark. DO NOT FREEZE
- Return all reagents to 2-8°C immediately after use.
- The diluted Washing Solution concentrate can be used for 4 weeks, when stored at 4°C.
- The diluted Extraction & Sample Dilution Buffer can be used for 1 week, when stored at 4°C. When crystals precipitate while storing, warm up to 37°C for 15 min. before usage.
- The Sample Extracts are stable for at least 24 hours at 4°C, or freeze for longer storage.

5. Applications

- Precise and reliable method for allergens quantification.



Tel : 02 8212 4074
Fax: 02 9423 6992
PO Box 1038
Gymea NSW 2227
info@keydiagnostics.com.au
www.keydiagnostics.com.au