PRODUCT CATALOG

R&D, IN VITRO DIAGNOSTICS FOR FOOD SAFETY
The word ‘prognosis’ comes from the Greek ‘prognostikos’ (knowledge beforehand). It combines ‘pro’ (before) and ‘gnosis’ (knowledge). Hippocrates used the word prognosis, much as we do today, to mean a foretelling of the course of a disease.
is an innovative Biotechnology Company, specialized in developing and manufacturing next-generation immuno-assays for the dairy, food and feed industries. The company produces high-quality ELISA kits and Lateral-Flow tests that detect and quantify Aflatoxin M1 in milk as well as all the major Mycotoxins in grains, cereals, nuts and many other commodities including animal feed.

ProGnosis Biotech recently launched a new product category for the quantitative determination of Histamine in fish and seafood. Moreover, the company provides products for the detection and quantification of Milk Adulteration in sheep or goat milk.

Based in Greece, ProGnosis Biotech is an export-oriented enterprise which through a large network of distributors, exports ELISA kits and Lateral-flow tests to more than 30 countries worldwide-in 4 continents. In a market where the competition is highly sophisticated and within a continuous improving environment, Prognosis Biotech has achieved to possess an important role in the food diagnostics industry.

**ACCURACY THROUGH INNOVATION**

Our company develops highly accurate and innovative products, as proven by the received validations from external institutes (ILVO validation, August 2018)

In order to consistently provide top-quality products, ProGnosis participates on a monthly basis in Proficiency Tests organized by the most popular organizations in the UK, France, Germany, Italy, and the US, while all our R&D and production procedures are certified with ISO 9001.

Our main goal for the forthcoming years is to expand our activities into new markets investing also in rigorous product development processes.

Our Mission serves as the standard against which we weigh our actions and decisions:

- To provide innovative, accurate and reliable solutions with our products.
- To create value and make a difference in the food and laboratory sectors.
LATERAL FLOW
Designed and manufactured in Europe, Symmetric Technology is an outcome product of an intensive 4-year R&D investment. Symmetric products are extremely accurate and precise producing also very high results in terms of sensitivity and stability.

First applied on Mycotoxins, Symmetric Technology signifies the transition of Lateral-flow sticks from being a low-esteemed screening tool into a reliable confirmatory method.

To this day, Lateral-flow tests demonstrate CVs of 20-40%, which are considerably higher than the equivalent ones of ELISA and HPLC. The Symmetric series can achieve a Coefficient of Variation lower than 8% within the critical area of interest, which is defined in every mycotoxin according to the existent legislation.
Symmetric M1 is a Lateral Flow test for the quantitative determination of Aflatoxin M1 in cow, sheep, goat and UHT milk.

**Lateral flow characteristics:**
- Lateral flow in dip stick format available in 48 and 96 test sticks
- Limit of detection (LOD): 2 ppt
- Range of quantification: 8-150 ppt
- Highly accurate results: (concentrations between 25 and 75ppt of AFM1) < 8 % CV
- Cross reaction (Aflatoxin M1 100%, Aflatoxin M2 <10%)
- Adjusted to the EU legislation limit
- Low procedure time (10 min)
- Shelf Life: 12 months | Storage 2-8 °C

**CAT.NUMBER:** S2148/S2196
**Symmetric M1 750**

Symmetric M1 750 is a Lateral Flow test for the quantitative determination of Aflatoxin M1 in cow and UHT milk.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 48 and 96 test sticks
- Limit of detection (LOD): 10 ppt
- Range of quantification: 30-750 ppt
- Highly accurate results: (concentrations between 100 and 500 ppt of AFM1) < 8 % CV
- Cross reaction (Aflatoxin M1 100%, Aflatoxin M2 <0.1%)
- Adjusted to the US and Asian legislation limits
- Low procedure time (8 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S2348/S2396

**Symmetric M1 1000**

Symmetric M1 1000 is a Lateral Flow test for the quantitative determination of Aflatoxin M1 in cow and UHT milk.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 48 and 96 test sticks
- Limit of detection (LOD): 22 ppt
- Range of quantification: 70-1000 ppt
- Highly accurate results: (concentrations between 200 and 700 ppt of AFM1) < 8 % CV
- Cross reaction (Aflatoxin M1 100%, Aflatoxin M2 <0.1%)
- Adjusted to the US and Asian legislation limits
- Low procedure time (8 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S2448/S2496
**SYMMETRIC B1 ES**

Symmetric B1 Extra Sensitive is a Lateral Flow test for the quantitative determination of Aflatoxin B1 in grains, nuts, cereals and other commodities including animal feed.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 0.1 ppb
- Range of quantification: 0.25-8 ppb
- Highly accurate results
- Adjusted to the EU legislation limit
- Low procedure time (8 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S3124/ S3148

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**SYMMETRIC TOTAL ES**

Symmetric Total Extra Sensitive is a Lateral Flow test for the quantitative determination of Aflatoxins B1, B2, G1, G2 in grains, nuts, cereals and other commodities including animal feed.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 0.1 ppb
- Range of quantification: 0.25-8 ppb
- Highly accurate results
- Adjusted to the EU legislation limit
- Cross reaction with Aflatoxin B1, B2, G1 and G2 is 100, 79, 89 and 45% respectively
- Low procedure time (10 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S3224/ S3248
**SYMMETRIC B1 OP**

Symmetric B1 OP is an innovative Lateral Flow test utilizing state-of-the-art features for the quantitative determination of Aflatoxin B1, in grains, nuts, cereals and other commodities including animal feed. Symmetric B1 OP is designed for complex matrices and can analyze more than 30 different commodities. For the extraction step is used 50% Ethanol.

*{Lateral flow characteristics}:

- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 1 ppb
- Range of quantification: 1.5-30 ppb
- Low procedure time (8 min)
- Designed for the most complex matrices
- Validation of more than 30 different matrices
- Highly accurate results
- Adjusted to the EU legislation limit
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: N3824/3848

**SYMMETRIC TOTAL OP 0-50**

Symmetric Total OP is an innovative Lateral Flow test, utilizing state-of-the-art features for the quantitative determination of Aflatoxins B1, B2, G1, G2 in grains, nuts, cereals and other commodities including animal feed. Symmetric Total OP is designed for complex matrices and can analyze more than 30 different commodities. For the extraction step is used 50% Ethanol.

*{Lateral flow characteristics}:

- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 2 ppb
- Range of quantification: 4-50 ppb
- Low procedure time (8 min)
- Designed for the most complex matrices
- Validation of more than 30 different matrices
- Highly accurate results
- Adjusted to the US and Asian legislation limits
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: N3924/3948
SYMMETRIC DON OP

Symmetric DON OP is an innovative Lateral Flow test utilizing state-of-the-art features for the quantitative determination of Deoxynivalenol (DON), in grains, nuts, cereals and other commodities including animal feed.

Symmetric DON OP is designed for complex matrices and can analyze more than 30 different commodities. For the extraction step is used DI water.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 0.1 ppm
- Range of quantification: 0.15-5 ppm
- Low procedure time (8 min)
- Designed for the most complex matrices
- Validation of more than 30 different matrices
- Highly accurate results
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: N4124/4148
Symmetric Green is a highly innovative Lateral Flow test series, utilizing state-of-the-art features for the quantitative detection of all the major Mycotoxins (Aflatoxins B1, B2, G1, G2, Deoxynivalenol, Zearalenone, Ochratoxin, Fumonisin, T-2/HT-2) in grains, nuts, cereals and other commodities including animal feed.

Symmetric Green Series
One green extraction...designed for accuracy

The aqueous extraction method eliminates the adverse effects of organic solvents (such as methanol) on humans, avoiding their unnecessary use in the laboratory. Hazards caused by organic solvents are generally underrated, nevertheless they are quite serious especially when the individual is exposed to organic solvents on a regular basis. Hazards associated with organic solvents may occur from skin contact, inhalation or ingestion. Organic solvents such as methanol are skin irritants after coming in contact with the skin, while in prolonged exposure they can affect the function of the central nervous system.
**SYMmetric B1 Green**

Symmetric B1 Green is a Lateral Flow test, utilizing state-of-the-art features for the quantitative determination of Aflatoxin B1, in grains, nuts, cereals and other commodities including animal feed.

*Lateral flow characteristics:*
  - Lateral flow in dip stick format available in 24 and 48 test sticks
  - Limit of detection (LOD): 1 ppb
  - Range of quantification: 2-40 ppb
  - Highly accurate results
  - Low procedure time (5 min)
  - Adjusted to the EU legislation limit
  - Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S3724/S3748

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**SYMmetric Total Green 0-30**

Symmetric Total Green 0-30 is a Lateral Flow test for the quantitative determination of Aflatoxins B1, B2, G1, G2 in grains, nuts, cereals and other commodities including animal feed, in relation to the E.U regulations for the Aflatoxin limits.

*Lateral flow characteristics:*
  - Lateral flow in dip stick format available in 24 and 48 test sticks
  - Limit of detection (LOD): 0.8 ppb
  - Range of quantification: 1.2-30 ppb
  - Highly accurate results
  - Cross reaction with Aflatoxin B1, B2, G1 and G2 is 100, 81, 73 and 55% respectively
  - Adjusted to the EU, US and Asian legislation limits
  - Low procedure time (5 min)
  - Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S3424/ S3448
Symmetric Deoxynivalenol (DON) Green is a Lateral Flow test for the quantitative determination of Deoxynivalenol, in grains, nuts, cereals and other commodities including animal feed.

**Lateral flow characteristics:**
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 0.1 ppm
- Range of quantification: 0.15-5 ppm
- Highly accurate results
- Low procedure time (5 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S4024/S4048
**SYMmetric ZON Green**

Symmetric Zearalenone (ZON) Green is a Lateral Flow test for the quantitative determination of Zearalenone, in grains, nuts, cereals and other commodities including animal feed.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 40 ppb
- Range of quantification: 60 – 800 ppb
- Highly accurate results
- Low procedure time (5 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S5024/ S5048

**SYMmetric OCHRatoxin Green**

Symmetric Ochratoxin (OTA) Green is a Lateral Flow test for the quantitative determination of Ochratoxin, in grains, nuts, cereals and other commodities including animal feed.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 1 ppb
- Range of quantification: 1.5-40 ppb
- Highly accurate results
- Low procedure time (5 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S6024/ S6048

**SYMmetric Fumonisin Green**

Symmetric Fumonisin Green is a Lateral Flow test for the quantitative determination of Fumonisin, in grains, nuts, cereals and other commodities including animal feed.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 0.05 ppm
- Range of quantification: 0.07 – 3 ppm
- Highly accurate results
- Low procedure time (5 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S7024/ S7048

**SYMmetric T-2/HT-2 Green**

Symmetric T-2/HT-2 Green is a Lateral Flow test for the quantitative determination of T-2/HT-2, in grains, nuts, cereals and other commodities including animal feed.

*Lateral flow characteristics:*
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 20 ppb
- Range of quantification: 30-750 ppb T-2 and HT-2 toxin
- Highly accurate results
- Low procedure time (5 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S8024/ S8048
Rapid Test Cow is a Lateral flow test for the quantification of Cow’s milk in Sheep’s, Goat’s or Human’s milk in only 3 minutes. Rapid Test Cow can also be used in the field producing qualitative results.

Lateral flow characteristics:
- Lateral flow in dip stick format available in 30 and 120 test sticks
- Limit of detection (LOD): 0.1 % of the mixture in milk
- Range of quantification: from negative to 0-2% adulteration
- Easy to use, all disposables included
- Clear/easy to interpret Visual Results
- Highly selective antibodies. No false positive-negative results
- Low Procedure time, only 3 minutes
- Easily identify results with more than 50 % adulteration
- Trace adulteration also in Cheese
- Suitable for testing in the field & in the Laboratory
- Shelf Life: 12 months | Storage 15-25 °C

CAT.NUMBER: R1230/R12120

Rapid Test Goat is a Lateral flow test for the quantification of Goat’s milk in Sheep’s milk in only 3 minutes. Rapid Test Goat can also be used in the field producing qualitative results.

Lateral flow characteristics:
- Lateral flow in dip stick format available in 30 and 120 test sticks
- Limit of detection (LOD): 0.1 % of the mixture in milk
- Range of quantification: from negative to 0-2% adulteration
- Easy to use, all disposables included.
- Clear-easy to interpret Visual Results
- Highly selective antibodies. No false positive-negative results.
- Low Procedure time, only 3 minutes
- Easily identify results with more than 50 % adulteration.
- Trace adulteration also in Cheese
- Suitable for testing in the field & in the Laboratory
- Shelf Life: 12 months | Storage 15-25 °C

CAT.NUMBER: R1130/R11120
ELISA
MYCOTOXINS
Aflatoxins are toxic metabolites of major concern to the dairy industry, generally produced by Aspergillus flavus, A. parasiticus and A. nomius. They can have immunosuppressive, mutagenic, teratogenic and carcinogenic effects. Aflatoxins that are ingested by animals in contaminated pellets and forage are biotransformed at the hepatic level into Aflatoxin M1 (AFM1). Aflatoxin is then excreted in this form into the milk used for human consumption and, it is also present in dairy products. AFM1 in milk and milk products is considered to pose certain hygienic risks for human health and as a result there is an established EU limit of 0.05 μg/kg (50ppt) and 0.025 μg/kg (25ppt) for infant food.
**BIO-SHIELD M1 ES**

Bio-Shield Aflatoxin M1 Extra Sensitive is an easy to use ELISA test, for the quantitative determination of Aflatoxin M1 in milk in compliance with ISO 14675:2003.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips), 96 wells (12 strips) or 192 wells (24 strips)
- Limit of detection (LOD): 2 ppt
- Extremely wide range of quantification: 5-250 ppt
- High specificity and sensitivity
- Cross reaction (Aflatoxin M1 100%, Aflatoxin M2 <0.1%)
- Adjusted to the EU legislation limit
- Low procedure time (75min)
- All reagents are in ready to use format
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B2048/B2096

**BIO-SHIELD M1 BF**

Bio-Shield Aflatoxin M1 Baby Food is an easy to use ELISA test, for the quantitative determination of Aflatoxin M1 in Cow’s milk, Sheep’s or Goat’s milk, in accordance with the EU and Asian legislation limit for baby foods.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 1.5ppt
- Range of quantification: 5-80 ppt
- No centrifugation needed
- Rapid, innovative protocols for cheese and yogurt
- Cross reaction (Aflatoxin M1 100%, Aflatoxin M2 <0.1%)
- Adjusted to the EU and Asian legislation limit
- Low procedure time (75min)
- All reagents are in ready to use format
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B3048/B3096

**BIO-SHIELD M1 ES RECEIVED IN AUGUST 2018 THE ILVO VALIDATION, CONFIRMING ITS HIGH ACCURACY**
**BIO-SHIELD M1 FAST**

Bio-Shield Aflatoxin M1 Fast is a fast ELISA test for the quantitative determination of Aflatoxin M1 in milk, in 30 minutes and by using only one standard!

Bio-Shield M1 Fast is a fast, and cost-effective screening method for Aflatoxin M1 in milk. The assay was developed and validated without any standard curve. After running the only standard of 0 ppt Aflatoxin M1 and the samples, concentrations are obtained by interpolation with the batch provided master-curve. Also, the free software Prognosis Data Reader can auto correct the time delay between the samples allowing for analysis of up to 47 samples with just one standard used.

**Elisa kit characteristics:**

- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- No need for sample pretreatment (Dilution or Centrifugation)
- Limit of detection (LOD): 5 ppt
- Wide range of quantification: 10-250 ppt
- Only one standard needed
- Adjusted to the EU legislation limit
- Very fast procedure time (30 min)
- All reagents are in ready to use format
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B2548/B2596
Bio-Shield Aflatoxin M1 Milk & Yogurt is an ELISA test for the quantitative determination of Aflatoxin M1 in yogurt drinks and milk.

**Elisa kit characteristics:**
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 20 ppt for milk, milk powder, 30 ppt for yogurt drink
- Wide range of quantification: 70-1000 ppt for milk, milk powder or 105-1500 ppt for Yogurt drinks
- Cross reaction (Aflatoxin M1 100%, Aflatoxin M2 <0.1%)
- No need for sample pretreatment for milk
- Samples can be Milk or Yogurt drinks
- Adjusted to the 0.5 μg/kg legislation limit
- Ultra Fast procedure (20 min)
- All reagents are in ready to use format
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B2248/B2296
• ELISA KITS FOR ALL REGULATED MYCOTOXINS
• ONE, UNIQUE WAY OF SAMPLE PREPARATION
• BROAD RANGE OF VALIDATED MATRICES
• LOWEST LOD AND LOQ IN THE MARKET
Mycotoxins are poisonous chemical compounds produced by certain fungi. There are many such compounds, but only a few of them are regularly found in food and animal feedstuffs such as grains and seeds. Nevertheless, those that do occur in food have great significance in the health of humans and livestock. The effects of some food-borne mycotoxins are acute, symptoms of severe illness appearing very quickly. Other mycotoxins occurring in food have longer term chronic or cumulative effects on health, including the induction of several types of cancers and immune deficiency.

There are six mycotoxins, or groups of mycotoxins, that can be found quite often in food or feed: Deoxynivalenol, Zearalenone; Ochratoxin, Fumonisins, T2-HT2 toxins and Aflatoxins B1,B2,G1,G2.

The fungi that produce mycotoxins in food are categorized into two groups: those that invade before harvest, commonly called field fungi, and those that occur only after harvest, called storage fungi.

There are three types of toxicogenic field fungi:

- plant pathogens such as F. graminearum (deoxynivalenol, nivalenol)
- fungi that grow on senescent or stressed plants, such as F. moniliforme (fumonisin) and sometimes A. flavus (aflatoxin)
- fungi that initially colonise the plant before harvest and predispose the commodity to mycotoxin contamination after harvest, such as P. verrucosum (ochratoxin) and A. flavus (aflatoxin)

Most controlling government agencies worldwide have regulations regarding the amount of mycotoxins allowable in feed and food and especially in infant food. Accurate and rapid determination of the presence of mycotoxins in commodities is of paramount importance.
**Bio-Shield B1 5**

Bio-Shield B1 5 is an ELISA test for the quantitative determination of Aflatoxin B1 in grains, nuts, spices, cereals and other commodities including animal feed. The test has a low procedure time of 5 minutes, producing highly accurate and precise results.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- 5-min ELISA method
- Limit of detection (LOD): 1 ppb
- Wide range of quantification: 1.5-40 ppb
- High specificity and sensitivity
- All reagents are in ready to use format
- Adjusted to the EU legislation limit
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B5048/B5096

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**Bio-Shield B1 OP**

Bio-Shield Aflatoxin B1 Optimum Performance is an ELISA test for the quantitative determination of Aflatoxin B1 in grains, cereals, spices, oil, animal feed and baby food ingredients.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 1 ppb
- Wide range of quantification: 2.5-50 ppb
- High specificity and sensitivity
- All reagents are in ready to use format
- Adjusted to the EU and Asian legislation limit
- Very fast process (20 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B3348/B3396
**BIO-SHIELD B1 ES**

Bio-Shield Aflatoxin B1 Extra Sensitive is an ELISA test for the quantitative determination of Aflatoxin B1 in grains, nuts, cottonseeds, cereals and other commodities including animal feed.

*Elisa kit characteristics:*

- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 0.2 ppb
- Range of quantification: 0.5-10 ppb
- Ultra sensitive method
- All reagents are in ready to use format
- Adjusted to the EU legislation limit
- Very fast process (20 min)
- Shelf Life: 12 months | Storage 2-8 °C

**CAT.NUMBER:** B2948/B2996

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**BIO-SHIELD B1 BF**

Bio-Shield Aflatoxin B1 Baby Food is an ELISA test for the quantitative determination of Aflatoxin B1 in grains, nuts and cereals in accordance with the EU and Asian legislation limit of AFB1 in baby foods.

*Elisa kit characteristics:*

- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 0.02 ppb
- Range of quantification: 0.06-2.5 ppb
- Ultra sensitive method
- Fast and easy to use extraction protocol
- All reagents are in ready to use format
- Adjusted to the EU and Asia legislation limit for infant food
- Fast process (75 min)
- Shelf Life: 12 months | Storage 2-8 °C

**CAT.NUMBER:** B3148/B3196
**Bio-Shield Total 5**

Bio-Shield Total 5 is an ELISA test for the quantitative determination of Aflatoxins B1, B2, G1, G2 in grains, nuts, cereals and other commodities including animal feed. The test has a low procedure time of 5 minutes, producing highly accurate and precise results.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- 5-min ELISA method
- Limit of detection (LOD): 1 ppb
- Wide range of quantification: 1.5-50 ppb
- High specificity and sensitivity
- Cross reaction (Aflatoxin B1: 100%, Aflatoxin B2: 80%, Aflatoxin G1: 80%, Aflatoxin G2: 55%)
- All reagents are in ready to use format
- Adjusted to the US and Asian legislation limit
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B5148/B5196

**Bio-Shield Total ES**

Bio-Shield Aflatoxin Total Extra Sensitive is an ELISA test for the quantitative determination of Aflatoxins B1, B2, G1, G2 in grains, nuts, cottonseeds, cereals and other commodities including animal feed.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 0.2 ppb
- Wide range of quantification: 0.6-10 ppb
- Ultra sensitive method
- Cross reaction (Aflatoxin B1 100%, Aflatoxin B2 98%, Aflatoxin G1 97%, Aflatoxin G2 86%)
- All reagents are in ready to use format
- Adjusted to the EU legislation limit
- Very fast process (20 min)
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B2348/B2396
**BIO-SHIELD TOTAL OP**

Bio-Shield Aflatoxin Total Optimum Performance is an ELISA test for the quantitative determination of Aflatoxins B1, B2, G1, G2 in grains, cereals, spices, oil and animal feed.

*Elisa kit characteristics:*
  - Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
  - Limit of detection (LOD): 1 ppb
  - Range of quantification: 3-50 ppb
  - Ultra High specificity and sensitivity
  - Cross reaction (Aflatoxin B1 100%, Aflatoxin B2 98%, Aflatoxin G1 97%, Aflatoxin G2 86%)
  - All reagents are in ready to use format
  - Adjusted to the EU and Asian legislation limit
  - Very fast process (20 min)
  - Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B3948/B3996

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**BIO-SHIELD ZON 5**

Bio-Shield ZON 5 is an ELISA test for the quantitative determination of Zearalenone (ZON) in grains, cereals and other commodities including animal feed. The test has a low procedure time of 5 minutes, producing highly accurate and precise results.

*Elisa kit characteristics:*
  - Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
  - 5-min method
  - Limit of detection (LOD): 15 ppb
  - Wide range of quantification 20-500 ppb
  - High specificity and sensitivity
  - All reagents are in ready to use format
  - Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B5348/B5396
**BIO-SHIELD DON 5**

Bio-Shield DON 5 is an ELISA test for the quantitative determination of Deoxynivalenol (DON) in grains, cereals and other commodities including animal feed. The test has a low procedure time of 5 minutes, producing highly accurate and precise results.

*Elisa kit characteristics:*

- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- 5-min ELISA method
- Limit of detection (LOD): 0.07 ppm
- Wide range of quantification: 0.1-5 ppm
- High specificity and sensitivity
- All reagents are in ready to use format
- Shelf Life: 12 months | Storage 2-8 °C

**CAT.NUMBER:** B5248/B5296

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**BIO-SHIELD DON**

Bio-Shield Deoxynivalenol (DON) is an ELISA test for the quantitative determination of Deoxynivalenol in grains, nuts, cereals and other commodities including animal feed.

*Elisa kit characteristics:*

- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 0.05 ppm
- Wide range of quantification: 0.1-5 ppm
- High specificity and sensitivity
- All reagents are in ready to use format
- Very fast process (20 min)
- Shelf Life: 12 months | Storage 2-8 °C

**CAT.NUMBER:** B2648/B2696
**Bio-Shield Ochratoxin**

Bio-Shield Ochratoxin is an ELISA test for the quantitative determination of Ochratoxin A in grains, nuts, cottonseeds, cereals and other commodities including animal feed.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 0.5 ppb
- Wide range of quantification: 1.5-40 ppb
- High specificity and sensitivity
- All reagents are in ready to use format
- Very fast process (20 min)
- Shelf Life: 12 months | Storage 2-8 °C

**Bio-Shield Fumonisin 5**

Bio-Shield Fumonisin 5 is an ELISA test for the quantitative determination of Fumonisin (Fumo) in grains, cereals and other commodities including animal feed. The test has a low procedure time of 5 minutes, producing highly accurate and precise results.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- 5-min ELISA method
- Limit of detection (LOD): 0.11 ppm
- Wide range of quantification: 0.16-6 ppm
- High specificity and sensitivity
- All reagents are in ready to use format
- Shelf Life: 12 months | Storage 2-8 °C

**Bio-Shield T2/HT-2**

Bio-Shield T-2/HT-2 is an ELISA test for the quantitative determination of Trichothecene T-2/HT-2 in grains, cereals and animal feed.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 5 ppb
- Wide range of quantification: 10-500 ppb
- High specificity and sensitivity
- All reagents are in ready to use format
- Very fast process (15 min)
- Shelf Life: 12 months | Storage 2-8 °C

**Bio-Shield T-2**

Bio-Shield T-2, is an ELISA test for the determination of the Trichothecene T-2 in grains, cereals and other commodities including animal feed. In contrast with other products, this ELISA test can detect solely the T-2 mycotoxin.

*Elisa kit characteristics:*
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 3.3 ppb
- Wide range of quantification: 6-500 ppb
- High specificity and sensitivity
- All reagents are in ready to use format
- Very fast process (20 min)
- Shelf Life: 12 months | Storage 2-8 °C
AN ACCURATE AND COST-EFFECTIVE ELISA METHOD

1-Standard ELISA series is a new innovative ELISA system, using a precalibrated curve for the quantification of mycotoxins.

Unlike the regular ELISA protocol that needs to have several standards for an accurate quantification method, the 1-standard ELISA requires only the first (analyte free) standard.

The main advantage of the regular ELISA is that small or sometimes bigger variations of the individual experiment (time delays or temperature variations) are the same both for the standards as well as for the samples, minimizing their impact on the results. For this reason, the 1-standard ELISA series still uses the analyte free standard in order to provide the same advantage in terms of accuracy.

The precalibrated standard curve has been run multiple times in ProGnosis Biotech facilities and following thorough examinations and validations it is unique for every lot and it can be downloaded on Prognosis Data reader.

When a user wants to analyze one sample, with the 1-Standard ELISA only two ELISA wells are needed, instead of 6 (or even more) with the regular ELISA.
1-STANDARD B1

1-Standard B1 is an ELISA test for the quantitative determination of Aflatoxin B1 in grains, nuts, spices, cereals and animal feed. The test provides a cost-effective, and reliable solution to the analyst, including only the standard 1 (zero standard) in the kit.

Elisa kit characteristics:
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips)
- Only one standard needed
- 5-min ELISA method
- Limit of detection (LOD): 1 ppb
- Wide range of quantification: 1.5-40 ppb
- High specificity and sensitivity
- All reagents are in ready to use format
- Adjusted to the EU legislation limit
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: D4948

1-STANDARD TOTAL

1-Standard Total is an ELISA test for the quantitative determination of Aflatoxins B1, B2, G1, G2 in grains, nuts, spices, cereals and animal feed. The test provides a cost-effective, and reliable solution to the analyst, including only the standard 1 (zero standard) in the kit.

Elisa kit characteristics:
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips)
- Only one standard needed
- 5-min ELISA method
- Limit of detection (LOD): 0.6 ppb of
- Wide range of quantification: 1-50 ppb
- High specificity and sensitivity
- All reagents are in ready to use format
- Adjusted to the US and Asian legislation limit
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: D4348
1-Standard DON

1-Standard DON is an ELISA test for the quantitative determination of Deoxynivalenol (DON) in grains, cereals and animal feed. The test provides a cost-effective, and reliable solution to the analyst, including only the standard 1 (zero standard) in the kit.

Elisa kit characteristics:

• Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips)
• Only one standard needed
• 5-mins ELISA method
• Limit of detection (LOD): 0.03 ppm
• Wide range of quantification: 0.05-5 ppm
• High specificity and sensitivity
• All reagents are in ready to use format
• Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: D4548
1-STANDARD ZON

1-Standard Zon is an ELISA test for the quantitative determination of Zearalenone (ZON) in grains, spices, cereals and animal feed. The test provides a cost-effective, and reliable solution to the analyst, including only the standard 1 (zero standard) in the kit.

**Elisa kit characteristics:**
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips)
- Only one standard needed
- 5-min ELISA method
- Limit of detection (LOD): 15 ppb
- Wide range of quantification: 20-500
- High specificity and sensitivity
- All reagents are in ready to use format
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: D4448

1-STANDARD FUMONISIN

1-Standard Fumonisain is an ELISA test for the quantitative determination of Fumonisin (FUMO) in grains, spices, cereals and animal feed. The test provides a cost-effective, and reliable solution to the analyst, including only the standard 1 (zero standard) in the kit.

**Elisa kit characteristics:**
- Competitive Quantitative ELISA test with single-break strip plate with 48 wells (6 strips)
- Only one standard needed
- 5-min ELISA method
- Limit of detection (LOD): 0.11 ppm of Fumonisin
- Wide range of quantification: 0.16-6 ppm of Fumonisin
- High specificity and sensitivity
- All reagents are in ready to use format
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: D4748
Higher priced milk with limited seasonal availability is commonly and fraudulently adulterated with lower milk price from different dairy animals like cow. Adulterated milk either used in direct human consumption or in cheese manufacture (like feta, which is recognized as Protected Designation of Origin, PDO) results in a final product inferior to that expected by the consumer. Due to unknown milk mixtures, significant changes may occur in the final sensory characteristics and quality.

In addition, Cow’s milk allergy (CMA) is one of the most common food allergies, while Goat’s milk is also associated with a rare allergy disorder. Therefore, cow or goat milk must be declared as ingredients on food labels.

Milk adulteration can be detected by toilsome methods such as chromatography and electrophoresis requiring though highly sophisticated and expensive equipment and consequently are considered of limited value for the usual screening of milk.

**BIO-SHIELD COW**

Bio-Shield Cow is an ELISA test for the quantitative determination of Cow’s milk in Sheep’s or Goat’s milk.

*Elisa Kit characteristics:*
- Sandwich Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 0.10% cow’s milk in sheep’s milk or goat’s milk
- High specificity and sensitivity
- Up to 8% adulterations no need for extra dilutions
- Low procedure time (85 min)
- All reagents are in ready to use format
- Shelf Life: 12 months
- Storage 2-8 °C

CAT.NUMBER: B1248/B1296

**BIO-SHIELD GOAT**

Bio-Shield Goat is an easy to use, innovating and patented ELISA test for the determination of Goat’s milk in Sheep’s milk.

*Elisa Kit characteristics:*
- Sandwich Quantitative ELISA test with single-break strip plate with 48 wells (6 strips) or 96 wells (12 strips)
- Limit of detection (LOD): 0.14 % goat’s milk in sheep’s milk
- Up to 25% adulterations no need for extra dilutions
- Low procedure time (85 min)
- All reagents are in ready to use format
- Shelf Life: 12 months
- Storage 2-8 °C

CAT.NUMBER: B1148/B1196
ALTERNATIVE PRODUCTS
FOR SCREENING
MILK ADULTERATION:
BIO-SHIELD COW FAST,
BIO-SHIELD GOAT FAST

BIO-SHIELD COW CHEESE

The only ELISA product in the market, specially designed to detect the composition of cow milk in mature cheese.

Elisa kit characteristics:
- Sandwich Quantitative ELISA test with single-break strip plate with 48 wells (6 strips)
- Limit of detection (LOD): 0,04 % constitution of Cow milk in Cheese
- High specificity and sensitivity
- Adjusted to the Protected Designation of Origin (PDO) composition
- Range of quantification 4 %, no need for extra dilutions
- Low procedure time (85 min)
- All reagents are in ready to use format
- Shelf Life: 12 months
- Storage 2-8 °C

CAT.NUMBER: B1748

VISIT
WWW.PROGOSIS-BIOTECH.COM
HISTAMINE

ELISA | LATERAL FLOW
Histamine (HA) is best known as a mediator of allergic reactions, but it is now recognized to participate in numerous other normal and pathologic processes.

HA is a heterocyclic primary amine and is the by-product of the decarboxylation of the amino acid L-histidine by the enzyme histidine decarboxylase. The latter is produced by certain bacteria that can be found in sea food. The most common fish species that tend to accommodate HA belong to the scombroid family of fish (tuna, mahi mahi, marlin, bluefish, sardines, anchovy, bonito, herring and mackerel). After the fish are harvested the bacterial growth results in increasing histidine decarboxylase amounts which in turn induces HA production. High levels of HA may cause scombroid poisoning in humans which consists of various symptoms, such as rash, nausea, vomiting, diarrhea, hypotension, heart palpitations and muscle weakness. Most controlling government agencies worldwide have regulations regarding the amount of HA allowable in fish and fish products. HA levels in fish of good quality are usually below 10 ppm. HA values between 50 and 200 ppm are acceptable depending on the fish species and the country.

The accurate and rapid determination of Histamine presence in fish and seafood product is quite important.

**BIO-SHIELD HISTAMINE**

Bio-Shield Histamine is an ELISA test for the quantitative determination of Histamine in fresh fish, canned fish, frozen fish and fish meal. The method does not require an acylation process while it provides a wide range of quantification.

*Elisa kit characteristics:*
- Limit of detection (LOD): 2 ppm of Histamine
- Wide range of quantification: 2.5-200 ppm of Histamine
- Low Procedure time: 20 mins
- No acylation process needed
- High specificity and sensitivity
- All reagents are in ready to use format
- Adjusted to the global legislation limits for Histamine
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: B6048/B6096

**SYMMETRIC HISTAMINE**

Symmetric Histamine is an innovative Lateral Flow test for the quantitative determination of Histamine in fresh fish, canned fish, frozen fish and fish meal. The method is the only fully quantitative rapid test for Histamine in the market.

*Elisa kit characteristics:*
- Lateral flow in dip stick format available in 24 and 48 test sticks
- Limit of detection (LOD): 2.5 ppm
- Range of quantification: 7.5 -200 ppm
- No acylation process needed
- Extremely high accuracy of the results
- Low procedure time (3 min)
- Adjusted to the global legislation limits for Histamine
- Shelf Life: 12 months | Storage 2-8 °C

CAT.NUMBER: S9024/S9048
**CONTRACT MANUFACTURE**
Elisa, Western blot and Lateral flow technology based products can be outsourced to ProGnosis Biotech.

**CONTRACT ASSAY DEVELOPMENT**
ProGnosis Biotech assists clients in developing, manufacturing and commercializing point of care with Elisa Western Blot, Lateral Flow Assays.

**EDUCATIONAL PROGRAMS**
We train lab scientists so that our customers can achieve the demanding criteria of a quality control lab. The training programs are custom designed on customer needs.
**PROGNOSIS DATA READER**

We offer a free of charge, stand alone, easy to use, statistics analysis program, the ‘Prognosis data reader’ specially designed for our products. The user has the ability to write directly to the program or to import values from Microsoft Excel or Open Office from the spectrophotometer and create a full analytic report of the ELISA results without any additional efforts from the users.

**S-FLOW**

S-Flow is a flexible software platform for the rapid quantitative or semi-quantitative interpretation of the result of one or more lateral flow test strips. The device running S-Flow can be connected to a flatbed scanner or to S-Flow reader a more sophisticated imaging device for the acquisition of the lateral flow strip image. After the image is transferred to the memory, advanced algorithms are applied to detect, enumerate and align the strips and extract the color information on each one of them. This color information is then analyzed to produce the test results according to a specific method. This method that can be a standard statistical model or any method developed in collaboration with Lateral Logic ltd and with the manufacturer of the test.
ACCURACY THROUGH INNOVATION

OUR NEW PRODUCT!

SYMMETRIC OCHRATOXIN WINE

A lateral flow test for the quantitative determination of Ochratoxin in wine, in just 5 min.

- Limit of Detection: 0.2 ppb
- Range of Quantification: 0.35 – 5 ppb

Suitable for all types of wine!