



**BFD**

Food Safety Innovation

# PRODUCT CATALOGUE

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## Biorex Food Diagnostics

Biorex Food Diagnostics was established in 2014, acting as a subsidiary of Fortress Diagnostics (a renowned global IVD provider). We work with food producers, government and 3rd party laboratories and customs import/export departments to deliver innovative food and feed testing kits and improve food safety worldwide.

## Why choose Biorex Food Diagnostics?

As a company, we consistently invest in R&D to create new products and ensure our range meet the needs of the market. All products are manufactured to the highest standard in our ISO:13485 accredited manufacturing facility based in Northern Ireland.

Our aim is to help ensure that prohibited antibiotics and other contaminants are free from the food and feed supply chain. To achieve this, we deliver high quality, reliable test kits for the rapid detection of antibiotics, mycotoxins and veterinary drug residues found in a variety of sample types.

## Features & Benefits

- Fast assay time
- Low false positive rate
- Excellent precision/accuracy
- Easy to use kit format
- 42 samples can be analysed in single run
- Validated in accordance with EU Directive 2002/657
- Ready-to-use reagents
- Cost effective
- Reduces outsourcing & results turnaround time

## Sample Types



Meat



Seafood



Honey



Feed



Fruits &  
Nuts



Dairy



Urine



Others



# ANTIBIOTICS



Description	Cat.No	Assay Time	Specificity	Sample Types	Limit of Detection
AOZ FAST	BXEFB41A	45 Mins	2.NP.AOZ 100%	Fish/ Shrimp Aqueous Buffer Meat Honey I Honey II	0.06ppb 0.05ppb 0.05ppb 0.1ppb 0.3ppb
AMAZ	BXEFB42A	45 Mins	2.NP.AOZ 100%	Fish/ Shrimp Aqueous Buffer Meat Tissue Honey I Honey II	0.08ppb 0.08ppb 0.16ppb 0.1ppb 0.1ppb
AHD FAST	BXEFB43A	45 Mins	2.NP.AHD 100%	Fish/ Shrimp Aqueous Buffer Meat Tissue Honey	0.08ppb 0.03ppb 0.08ppb 0.5ppb
Chloramphenicol	BXEFB03A	45 Mins	Chloramphenicol 100% Chloramphenicol Glucuronide >100%	Shrimp/Prawn Urine Milk Honey Tissue Feed Egg Serum	0.025ppb 0.1ppb 0.1ppb 0.05ppb 0.1ppb 0.1ppb 0.1ppb 0.2ppb
Dimetridazole	BXEFB45A	55 Mins	Dimetridazole 100% Metronidazole 28%	Aqueous Buffer Shrimp/Prawn	0.25ppb 1.1ppb (Ultrasonic bath) 2ppb (Rotator/roller)
Fluoroquinolones	BXEFB07A	45 Mins	Enrofloxacin 100% Norfloxacin 100% Ciprofloxacin 90% Marbofloxacin 65% Difloxacin 26% Sarafloxacin 20% Danofloxacin 65%	Seafood/Shrimp Honey Egg/Egg Powder	1ppb 4ppb 1ppb
Multi-Sulfonamide	BXEFT08A	75 Mins	Sulfamethazine 100% Sulfamethizole >100% Sulfaquinoxaline >100% Sulfadiazine 100% Sulfamerazine >100% Sulfamonomethoxine >100% Sulfapyridazine >100% Sulfathiazole >100% Sulfamethoxazole 92% Sulfisoxazole 55% Sulfapyridine 34%	Honey (Rapid) Honey (SPE Screen) Urine Muscle/Seafood Milk	CCB 20ppb 3ppb 50ppb 10ppb 10ppb
Nitroimidazole (Metronidazole)	BXEFB40A	55 Mins	Metronidazole 100% Dimetridazole >100% Ronidazole <1%	Honey	3.0ppb
Oxytetracycline/ Tetracycline	BXEFB46A	75 Mins	Tetracycline 100% Oxytetracycline 99% Chlortetracycline 13% Doxycycline 5%	Prawn/Shrimp Aqueous Buffer	4ppb 0.2ng/ml (ppb)
SEM FAST	BXEFB44A	45 Mins	2.NP.SEM 100%	Fish/ Shrimp Aqueous Buffer Feed Meat Tissue Honey I Honey II	0.15ppb 0.05ppb 0.7ppb 0.16ppb 0.1ppb 0.1ppb
Streptomycin FAST	BXEFB37A	60 Mins	Streptomycin 100% Dihydrostreptomycin 129%	Honey	5ppb
Nifursol	BXEFB54A	TBC	2.NP.DNSH 100%	Shrimp	0.25ppb
Tylosin	BXEFT13A	50 Mins	Tylosin A 100%	Honey Seafood	1ppb 10ppb

# GROWTH HORMONES



Description	Cat.No	Assay Time	Specificity	Sample Types	Limit of Detection
Clenbuterol	BXEFB04A	45 Mins	Clenbuterol 100% Mabuterol 65% Mapenterol 46% Brombuterol 43% Bromchlorobuterol 40% Clenpenterol 34% Cimbuterol 23% Clenproperol 8% Salbutamol 4% Hydroxy-Methyclenbuterol 4% Terbutaline 3% Cimaterol 3% Bambuterol 2% Clencylohexerol <0.05%	Urine Serum Tissue	0.2ppb 0.2ppb 0.2ppb
Zeranol	BXEFT17A	105 Mins	Zeranol 100% Zearalanone 447% β-zearalanol (Taleranol) 115% Zearalenone 24% α-zearalenol 55%	Urine	0.5ppb
Trenbolone	BXEFT15A	105 Mins	17.β. Trenbolone 100% 17.β. Trenbolone Glucuronide 78% 17.α. Trenbolone 58% 19. Nortestosterone 11% Estrone 0.3% 17. Methyltestosterone <0.05% 17.β. Estradiol <0.05% Estril <0.05%	Urine Muscle	0.25ppb 0.1ppb
Beta Agonist v2	BXEFB06A	In development, coming soon			
Ractopamine v2	BXEFB05A	45 Mins	Ractopamine 100% Clenbuterol <0.05% Salbutamol <0.05%	Urine Corned Beef Muscle	1.0ppb 0.5ppb 0.85ppb

# HONEY QUALITY



Description	Cat.No / No. of Tests	Method	Sample Type	Limit of Detection
PRISM Analyser	BIOXBFD48 / N/A	Instrumentation	N/A	N/A
Sucrose/Glucose/Fructose	BXEFC05A / 100T BXEFC05B / 200T	Colorimetric	In development, coming soon	
Glucose / Fructose	BXEFC02C / 50T BXEFC02A / 100T	Colorimetric	Honey	Glucose: 2.3g/100g Total Sugars: 2.8g/100g
Glucose Controls (Low and High)	BXEFC04A / 50T			
HMF (Hydroxymethylfurfural)	BXEFC01A / 100T	Colorimetric	Honey	2mg/kg

# MYCOTOXINS



Description	Cat No.	Assay Time	Specificity	Sample Types	Limit of Detection
Aflatoxin B1	BXEFT01A	15 Mins	Aflatoxin B1 100% Aflatoxin B2 5% Aflatoxin G1 19% Aflatoxin G2 <1%	Feed/Cereal Dried Fruit Nuts	1ppb 1ppb 1ppb
Aflatoxin M1	BXEFB15A	20 Mins	Aflatoxin M1 100% Aflatoxin M2 <0.1%	Milk (raw and homogenized) Milk powder	0.025ppb 0.05ppb
Deoxynivalenol (DON)	BXEFT18A	20 Mins	3-acetyl-DON >100% DON 100% 3-glucosyl-DON 60 ± 10% 15-acetyl-DON 2% Nivalenol 3%	Cereals (maize/wheat) Feed Durum Wheat Barley Wheat Bran/Middlings	0.04ppm 0.04ppm 0.12ppm 0.04ppb 0.25ppb
T2/HT2	BXEFT20A	20 Mins	T2 Toxin 100% HT2 Toxin 72%	Cereals Feed	25ppb 50ppb
Total Aflatoxins	BXEFB09A	35 Mins	This test has the ability to detect the sum of Aflatoxin B1, B2, G1, G2.	Peanut Animal Feed/Cereal	1ppb (0-20ng/ml) 2ppb (0-100ng/ml)
Zearalenone	BXEFT19A	20 Mins	Zearalenone 100% α-zearalenol 62% Zearalenone 24% α-zearalenol 10 % β-zearalenol 8% β-zearalenol 5%	Cereals/Feed DDGS	10ppb (maize based) 20ppb (wheat based) 10ppb
Ochratoxin A	BXEFB52A	35 Mins	Ochratoxin A 100%	Feed/Grains	1.2ppb
Fumonisin	BXEFB38A	35 Mins	Fumonisin B1 100% Fumonisin B2 32% Fumonisin B3 33%	Feed/Grains	103ppb

## MYCOTOXIN STANDARD SOLUTIONS

Description	Cat No.	Purity	Solvent	Raw Materials	CAS No.
Aflatoxin B1 Solution 2ug/ml	BXEFF02A	99.90%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Aflatoxin B1 From Aspergillus flavus	1162-65-8
Aflatoxin B2 Solution 0.5ug/ml	BXEFF03A	100%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Aflatoxin B2 From Aspergillus flavus	7220-81-7
Aflatoxin G1 Solution 2ug/ml	BXEFF04A	98.57%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Aflatoxin G1 From Aspergillus flavus	1165-39-5
Aflatoxin G2 Solution 0.5ug/ml	BXEFF05A	99.80%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Aflatoxin G2 From Aspergillus flavus	7241-98-7
Aflatoxin M1 Solution 0.5ug/ml	BXEFF06A	99.89%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Aflatoxin M1 From Aspergillus flavus	6795-23-9
DON Solution 100ug/ml	BXEFF08A	99.72%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Deoxynivalenol	51481-10-8
Fumonisin B1 Solution 50ug /ml	BXEFF09A	100%	Acetonitrile (HPLC grade Supra-gradient, 99.97%): water, 1:1	Fumonisin B1 from Fusarium moniliforme	116355-83-0
Fumonisin B2 Solution 50ug/ml	BXEFF10A	100.0%	Acetonitrile (HPLC grade Supra-gradient, 99.97%): water, 1:1	Fumonisin B2 from Fusarium moniliforme	116355-84-1

Description	CAT.No	Purity	Solvent	Raw Materials	CAS No.
Fumonisin B3 Solution 50ug/ml	BXEFF11A	>99%	Acetonitrile (HPLC grade Supra-gradient, 99.97%): water, 1:1	Fumonisin B3 from Fusarium moniliforme	136379-59-4
Nivalenol Solution 100ug/ml	BXEFF14A	99.66%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Nivalenol from Fusarium SP	23282-20-4
Ochratoxin A Solution 10ug/ml	BXEFF01A	>99.9%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Ochratoxin A, Benzene Free, From Aspergillus Ochraceus	303-47-9
Zearalenone Solution 100ug/ml	BXEFF07A	98.97%	Acetonitrile HPLC grade Supra-gradient, 99.97%	Zearalenone from Gibberella Zeae	17924-92-4
3-Acetyl DON Solution 100ug/ml	BXEFF12A	99.66%	Acetonitrile HPLC grade Supra-gradient, 99.97%	3-Acetyl-DON	50722-28-8
15-Acetyl DON Solution 100ug/ml	BXEFF13A	94.7%	Acetonitrile (HPLC grade Supra-gradient, 99.97%): water, 1:1	15-Acetyl Deoxynivalenol	88337-96-6

## ELISA SOFTWARE

The Biorex Food Diagnostics ELISA Curve Fitting Software calculates the ELISA concentrations and absorbance results from standards and unknown samples, is provided on a portable USB flash drive and uses a Microsoft Excel template for calculating the data.

### Benefits



Cost effective solution- 90% lower purchase cost compared to other branded software



Simple copy/paste functionality



Delivers accurate, reliable results



Users can obtain results in seconds



Easy-to-use plate layout



Contact the sales team ([sales@biorexfooddiagnostics.com](mailto:sales@biorexfooddiagnostics.com)) for more information on the Biorex Food Diagnostics ELISA Software.

# EMERGING DEVELOPMENTS

Biorex Food Diagnostics have invested heavily in R&D to ensure that we are able to react quickly to any new emerging drugs entering the human food chain that require monitoring. We have excellent connections with many of the major food safety institutes within the EU and work closely with these organisations responding to their needs.

## “FlowSense” Lateral Flow Devices



2024 will see the release of a new product range “Flowsense” that will incorporate a range of Rapid Lateral Flow Devices and reader. The products in development will utilize the knowledge and insights gained from the successful completion of a research and development project “LOGIC”, which was part funded by the European Union through Horizon Europe and Innovate UK. The product group will include both single and multiplex target devices and include a range of qualitative and quantitative reporting options.

The product range will provide test results in <15mins with detection limits meeting global tolerances and be ideal for factory floor analysis perfect for fast moving industries that do not have access to laboratory facilities. Target groups will cover a range of antibiotics, mycotoxins and pesticides (see below).

Mycotoxins	Antibodies	Pesticides
Total Aflatoxin Aflatoxin B1 Deoxynivalenol (DON) Zearalenone Fumonisin T2/HT2	Streptomycin Quinolones Tetracyclines Macrolides Multi-Sulfonamides AOZ AMOZ AHD SEM Chloramphenicol	Imidacloprid Acetamiprid Thiamethoxam Carbendazim Clothianidin

## Features Of “Flowsense”

### Dedicated “Flowsense” Test Reader

- Enhanced sensitivity
- Data storage and connectivity capabilities
- Automated reading process
- Reduce subjectivity (data digitally captured)
- Compliance with regulatory standards

### New “Flowsense” Rapid Lateral Flow Devices

- Qualitative and Quantitative reporting
- Single, dual and multi-target

## Elisa Kits In Development

- Avermectins ELISA
- Tetracycline/Epimers ELISA







# BFD

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