



**BFD**

Food Safety Innovation

# PRODUCT CATALOGUE

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Biorex Food Diagnostics







# 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, third-party laboratories, and customs import/export departments to deliver innovative food and feed testing kits, that 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 meets the needs of the market. All products are manufactured to the highest standard in our ISO 13485 accredited manufacturing facility based in Northern Ireland, UK.

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.

## Company Key Benefits

- In-depth understanding of EU directives and regulations.
- Strong capability in delivering scientific and technical support.
- Worldwide distribution network spanning 28 countries across 5 continents.
- Proficient in offering both remote and in-person training.
- Complete laboratory setup services (One-stop shop).
- Dedicated to enhancing tools for food safety and quality.
- Actively engaged in innovative partnerships with numerous universities and research institutions.

## Sample Types



Meat



Seafood



Honey



Feed



Fruits &  
Nuts



Dairy



Urine



Others



# ANTIBIOTICS (ELISA 96T)



Description	Cat.No	Assay Time	Specificity	Sample Types	Limit of Detection
AOZ FAST	BXEFB41A	45mins	2.NP.AOZ 100%	Fish/ Shrimp Aqueous Buffer Meat Honey I Honey II	0.06ppb 0.05ppb 0.05ppb 0.1ppb 0.3ppb
AMOX FAST	BXEFB42A	45mins	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	45mins	2.NP.AHD 100%	Fish/ Shrimp Aqueous Buffer Meat Tissue Honey	0.08ppb 0.03ppb 0.08ppb 0.5ppb
Chloramphenicol FAST	BXEFB03A	45mins	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	55mins	Dimetridazole 100% Metronidazole 28%	Aqueous Buffer Shrimp/Prawn	0.25ppb 1.1ppb (Ultrasonic bath) 2ppb (Rotator/roller)
Fluoroquinolones FAST	BXEFB07A	45mins	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	75mins	Sulfamethazine 100% Sulfamethizole >100% Sulfaquinoxaline >100% Sulfadiazine 100% Sulfamerazine >100% Sulfamonomethoxine >100% Sulfapyridazine >100% Sulfathiazole >100% Sulfamethoxazole 92% Sulfisoxazole 55% Sulfapyridine 34% Sulfadoxine 24%	Honey (Rapid) Honey (SPE Screen) Urine Muscle/Seafood Milk	CCB 20ppb 3ppb 50ppb 10ppb 10ppb
Nitroimidazole (Metronidazole)	BXEFB40A	55mins	Metronidazole 100% Dimetridazole >100% Ronidazole <1%	Honey	3.0ppb
Oxytetracycline/Tetracycline	BXEFB46A	75mins	Tetracycline 100% Oxytetracycline 99% Chlortetracycline 13% Doxycycline 5%	Prawn/Shrimp Aqueous Buffer	4ppb 0.2ng/ml (ppb)
SEM FAST	BXEFB44A	45mins	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	60mins	Streptomycin 100% Dihydrostreptomycin 129%	Honey	5ppb
Nifursol (DNSH)	BXEFB54A	45mins	2.NP.DNSH 100%	Shrimp	0.22ppb
Tylosin	BXEFT13A	50mins	Tylosin A 100%	Honey Seafood	1ppb 10ppb

# ANTIBIOTICS (FlowSense Rapid Honey 48T)



Description	Cat No.	Assay Time	Sample Preparation	Antibiotic	FlowSense Reader Detection (ppb)	Visual Detection (ppb)
Streptomycin Honey (Quant) Flowsense Rapid Test	BXEFB55A-Q	10mins	Weigh sample, add diluted sample diluent and shake	*Streptomycin Dihydrostreptomycin	2 3	N/A N/A
Multi-Sulfonamides Flowsense Rapid Test (High Sensitivity)	BXEFB56A	8mins	Weigh sample, add diluted sample diluent and shake	*Sulfadimidine (Sulfamethazine) Sulfametoxydiazine Sulfaclozine Sulfamonomethoxine Sulfisomidine Sulfadimethoxine Sulphaquinoxaline Sulfamerazine Sulfadiazine Sulfachloropyridazine Sulfamoxole Sulfamethizole Sulfamethoxypyridazine Sulphormethoxine Sulfapyridine Sulfamethoxazole Sulfisoxazole Sulfathiazole	1 1 1.5 1.5 1.5 1.5 1.5 2 1.5 2 2 3 4 9 20 20 25 45 60	1.5 1.5 2 2 2 3 3 3 4 4 6 8 10 40 40 60 90 100
Multi-Antibiotic Honey (Quinolones/Thiamphenicol/Spectinomycin) Flowsense Rapid Test	BXEFB57A	10mins	Weigh sample, add diluted sample diluent and shake	*Enrofloxacin Norfloxacin Ciprofloxacin Oxolinic acid Danofloxacin Pefloxacin Flumequine Lomefloxacin Fleroxacin Difloxacin Ofloxacin Enoxacin Sarafloxacin Nalidixic acid Marbofloxacin Thiamphenicol Spectinomycin	0.75 0.75 1 1 1 1 2 2 2 2 2 2 2.5 4 10 2 10	1.5 1.5 1.5 1.5 1.5 1.5 3 3 3 3 4 4 4 6 15 5 15
Multi-Antibiotic Honey (Erythromycin/Tylosin/Tetracyclines) Flowsense Rapid Test	BXEFB58A	10mins	Weigh sample, add diluted sample diluent and shake	*Erythromycin *Tylosin Tilmicosin *Tetracycline Oxytetracycline Doxycycline Chlortetracycline	10 10 12 8 12 20 15	15 10 15 15 15 40 30
Chloramphenicol Honey Flowsense Rapid Test	BXEFB59A**	8mins	Dilute sample, Solvent Extraction, Evaporate, Reconstitute	*Chloramphenicol	0.1	0.5
Multi-Nitrofurantoin Honey (AHD/AOZ/SEM/AMOZ)	BXEFB60A**	10mins	Hydrolysis and derivatisation (15 minutes at 60°C), Solvent Extraction, Evaporate, Reconstitute	*Nitrofurantoin (AHD) *Furazolidone (AOZ) *Nitrofurazone (SEM) *Furaltadone (AMOZ)	0.25 0.25 0.25 0.5	0.5 0.5 0.5 0.5

Δ \*Reporting target

Δ\*\*Solvent use required.

# HONEY QUALITY



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

# GROWTH HORMONES (ELISA 96T)



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

# MYCOTOXINS (ELISA 96T)



Description	Cat No.	Assay Time	Specificity	Sample Types	Limit of Detection
Aflatoxin B1	BXEFT01A	15mins	Aflatoxin B1 100% Aflatoxin B2 5% Aflatoxin G1 19% Aflatoxin G2 <1%	Feed/Cereal Dried Fruit Nuts	1ppb 1ppb 1ppb
Aflatoxin M1	BXEFB69A	75mins	Aflatoxin M1 100% Aflatoxin M2 15%	Milk (raw and homogenized) Milk powder	5ppt 50ppt
Deoxynivalenol (DON)	BXEFT18A	20mins	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	20mins	T2 Toxin 100% HT2 Toxin 72%	Cereals Feed	25ppb 50ppb
Total Aflatoxins	BXEFB09A	35mins	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	20mins	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	35mins	Ochratoxin A 100%	Feed/Grains	1.2ppb
Fumonisin	BXEFB38A	35mins	Fumonisin B1 100% Fumonisin B2 32% Fumonisin B3 33%	Feed/Grains	103ppb

# MYCOTOXINS (FlowSense Rapid 24T)



Description	Cat No.	Assay Time	Sample Preparation	Mycotoxin	FlowSense Reader Detection	Visual Detection
Deoxynivalenol (DON) GREEN QUANT Rapid Test	BXEFB62A	TBC	TBC	TBC	TBC	TBC
Zearalenone GREEN QUANT Rapid Test	BXEFB63A	TBC	TBC	TBC	TBC	TBC
Aflatoxins GREEN QUANT Rapid Test	BXEFB64A	TBC	TBC	TBC	TBC	TBC
Multi-Mycotoxin (DON/ZER/B1) GREEN QUANT Rapid Test	BXEFB65A	TBC	TBC	TBC	TBC	TBC
Ochratoxin GREEN QUANT Rapid Test	BXEFB66A	TBC	TBC	TBC	TBC	TBC
T2/HT2 GREEN QUANT Rapid Test	BXEFB67A	TBC	TBC	TBC	TBC	TBC
Fumonisin GREEN QUANT Rapid Test	BXEFB68A	TBC	TBC	TBC	TBC	TBC

# 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.%	Acetonitrile (HPLC grade Supra-gradient, 99.97%): water, 1:1	Fumonisin B2 from Fusarium moniliforme	116355-84-1
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 Giberella 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



# FLOWSENSE READER

## Efficient & Accessible Food Safety Analysis



The Flowsense Reader has been designed to provide an accessible and effective method for food quality testing, offering numerous advantages to end-users. With a low initial investment, it is financially viable for a wide array of businesses and organizations. Its user-friendly design eliminates the need for prior experience or specialised technical skills, ensuring that anyone can operate it with ease.

Thanks to its portability, the Flowsense Reader can be used effortlessly in various environments, from field operations to different areas within food production facilities. This convenience allows for seamless integration into any workflow, ensuring that testing can be conducted without interruptions.

## Key Benefits

- Easy user accessibility with minimal training needed.
- Portable for on-site testing.
- Provides semi-quantitative results to reduce visual interpretation errors.
- Multiple Target Analysis Capability.
- Export via USB drive.
- High Data Storage Capacity
- Easy Printing facilities via USB

Description	Cat.No
FlowSense Reader	BIOXBFD60
FlowSense Reader Adaptor (4.5mm)	BIOXBFD63
FlowSense Reader Adaptor (20x70mm)	BIOXBFD62
Dry Bath Incubator	BIOXBFD51
FlowSense Printer	BIOXBFD67



# LABORATORY EQUIPMENT

## Microscan Mini (inc. Software)

Cat No. : BIOXMRS2

- Measuring wavelengths of 405NM, 450NM, 492NM & 630NM.
- Absorbance of 96 wells in 12 sec.
- User-friendly intuitive software
- Automatically positions plate, blanks, reads and calculates results reactions
- Open system



## PRISM Analyser

Cat No. : BIOXBFD48

- Pre-programmed Honey Quantitation test protocols
- Glucose/Fructose; Total Sugars; HMF; Diastase; Honey colour analysis
- Simple User Interface
- Highly accurate and reliable
- 5 in Colour High resolution LCD touchscreen display
- Accessories include thermal printer and dry incubator
- Supplied with 4 x Glass/2 x Quartz cuvettes and 4 cell holder
- Additional benefits include photometric and spectral scanning

## Dry Bath Incubator

Cat No. : BIOXBFD51

Digital Display Portable Thermostatic Dry Bath Incubator With Heating Block for cuvette dedicated module



## ELISA Curve Fit Software

Cat No. : BXEFB53A

- Cost effective solution- 90% lower purchase cost in comparison to other branded software
- Easy to use plate layout
- Users can obtain results in seconds
- Delivers accurate, reliable results
- Simple copy/paste functionality



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