



BFD

Food Safety Innovation

FlowSense



Honey Test Analysis

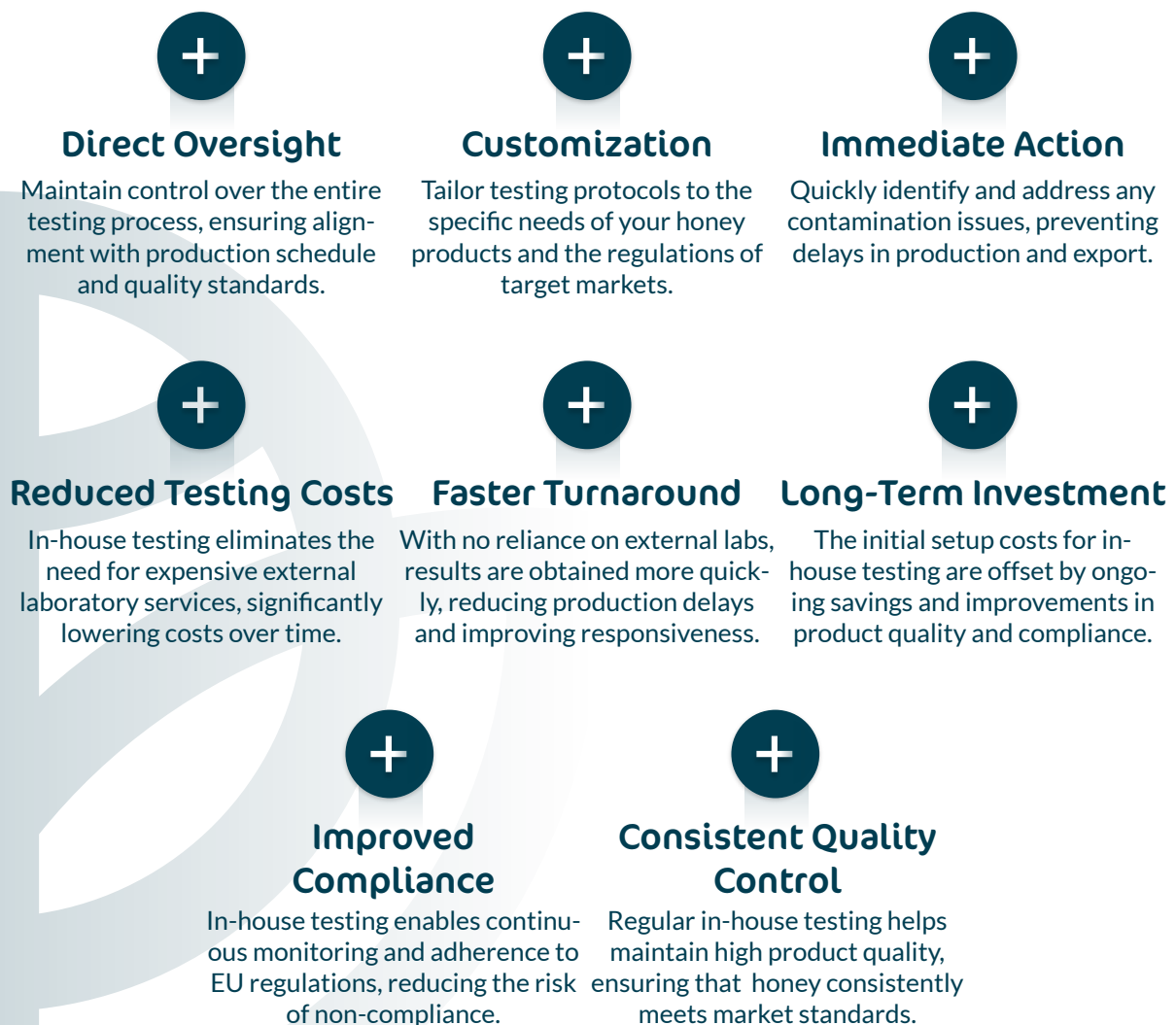
Biorex Food Diagnostics

Biorex Food Diagnostics

Biorex Food Diagnostics was established in 2014 as a subsidiary of Fortress Diagnostics (a globally recognized IVD provider). We work with food producers, government agencies, third-party laboratories, and import/export authorities to deliver innovative food and feed testing kits that improve food safety worldwide. All our products are manufactured to the highest standards at our ISO 13485 -accredited facility in Northern Ireland, UK.

Our mission is to bring reliable, affordable testing to every part of the honey industry to provide producers with the ability to carry out in-house testing and strengthen their quality assurance. We've made significant R&D investments to develop and validate test kits specifically for honey, ensuring they are accurate, easy to use and tailored to real-world industry needs.

Benefits of In-House Residue Testing



Rapid Test Analysis: FlowSense

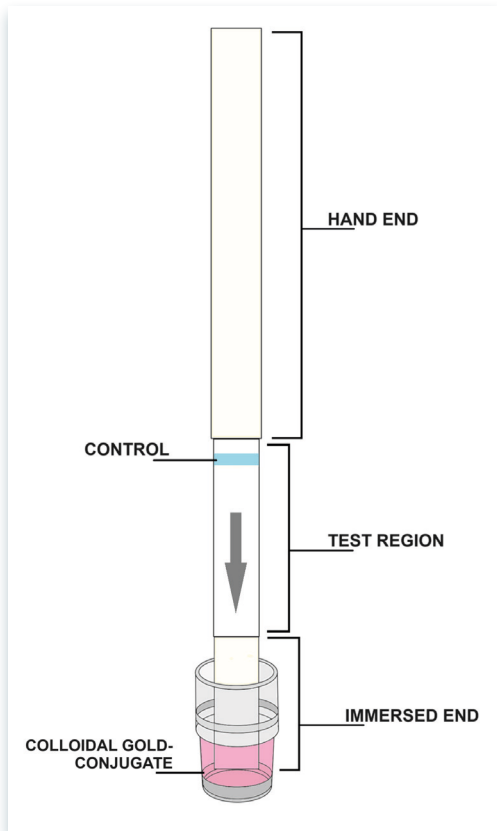
Efficient & Accessible Food Safety Analysis

The FlowSense product range offers a cost-effective and user-friendly rapid test solution for contaminant testing within the food industry. Unlike traditional test solutions, FlowSense testing can be completed outside a laboratory setting.

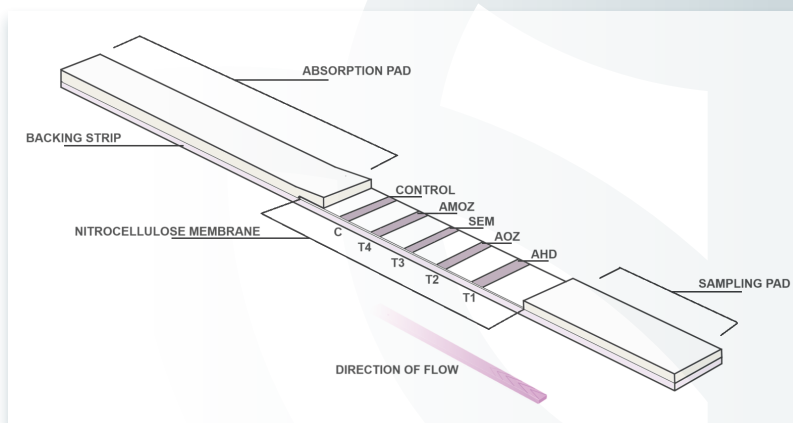
With minimal initial investment and technical expertise required, the FlowSense product range enhances the frequency of testing within food production quality schedules, enabling more consistent monitoring and quicker responses to any issues that may arise. By incorporating regular testing, food producers can maintain higher standards of quality and compliance, ultimately benefiting the overall operational efficiency and ensuring product safety.

Key Features & Benefits

- Minimal initial investment required.
- Eliminate expenses associated with third-party testing.
- No prior experience or extensive technical knowledge needed.
- Portable reader for convenient use.
- Enhance frequency of testing within your quality schedule.
- Multiplex analysis.



▲ Lateral flow orientation during test protocol.



▲ Innovative multiplex design of a FlowSense test.

*Test lines are visible for descriptive purposes - an unused LFD will only present a blue control line to the naked eye.

FlowSense Testing Panel

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	2	N/A
				Dihydrostreptomycin	3	N/A
Multi-Sulfonamides Flowsense Rapid Test (High Sensitivity)	BXEFB56A	8mins	Weigh sample, add diluted sample diluent and shake	*Sulfadimidine (Sulfamethazine)	1	1.5
				Sulfametoxydiazine	1	1.5
				Sulfaclozine	1.5	2
				Sulfamonomethoxine	1.5	2
				Sulfisomidine	1.5	2
				Sulfadimethoxine	1.5	2
				Sulphaquinoxaline	1.5	3
				Sulfamerazine	2	3
				Sulfadiazine	1.5	3
				Sulfachloropyridazine	2	4
				Sulfamoxole	2	4
				Sulfamethizole	3	6
				Sulfamethoxypyridazine	4	8
				Sulphormethoxine	9	10
				Sulfapyridine	20	40
				Sulfamethoxazole	20	40
				Sulfisoxazole	25	60
				Sulfathiazole	45	90
					60	100
Multi-Antibiotic Honey (Quinolones/Thiamphenicol/Spectinomycin) Flowsense Rapid Test	BXEFB57A	10mins	Weigh sample, add diluted sample diluent and shake	*Enrofloxacin	0.75	1.5
				Norfloxacin	0.75	1.5
				Ciprofloxacin	1	1.5
				Oxolinic acid	1	1.5
				Danofloxacin	1	1.5
				Pefloxacin	1	1.5
				Flumequine	2	3
				Lomefloxacin	2	3
				Fleroxacin	2	3
				Difloxacin	2	3
				Ofloxacin	2	4
				Enoxacin	2	4
				Sarafloxacin	2.5	4
				Nalidixic acid	4	6
				Marbofloxacin	10	15
				Thiamphenicol	2	5
				Spectinomycin	10	15
Multi-Antibiotic Honey (Erythromycin/Tylosin/Tetracyclines) Flowsense Rapid Test	BXEFB58A	10mins	Weigh sample, add diluted sample diluent and shake	*Erythromycin	10	15
				*Tylosin	10	10
				Tilmicosin	12	15
				*Tetracycline	8	15
				Oxytetracycline	12	15
				Doxycycline	20	40
				Chlortetracycline	15	30
Chloramphenicol Honey Flowsense Rapid Test	BXEFB59A**	8mins	Dilute sample, Solvent Extraction, Evaporate, Reconstitute	*Chloramphenicol	0.2	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)	0.25	0.5
				*Furazolidone (AOZ)	0.25	0.5
				*Nitrofurazone (SEM)	0.25	0.5
				*Furaltadone (AMOZ)	0.5	0.5

Δ *Reporting target

Δ**Solvent use required.

Coming Soon:
Glyphosate and Pesticides

Accessories

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

FLOWSENSE READER

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 organisations. 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.

User Interface



▲ Portable for on-site testing.



▲ Multiple analysis target capability with semi-quantitative results.

Antibiotic ELISA Analysis

Kit Description	Cat.No	Assay Time	Specificity	Kit Size	Sample Types	Limit of Detection
AHD FAST	BXEFB43A	45mins	2.NPAHD 100%	96T	Honey	0.5ppb
AMOE FAST	BXEFB42A	45mins	2.NP.AMOZ 100%	96T	Honey I Honey II	0.1ppb 0.1ppb
AOZ FAST	BXEFB41A	45mins	2.NP.AOZ 100%	96T	Honey I Honey II	0.1ppb 0.3ppb
Chloramphenicol FAST	BXEFB03A	45mins	Chloramphenicol 100% Chloramphenicol Glucuronide >100%	96T	Honey	0.05ppb
Fluoroquinolones	BXEFB07A	45mins	Enrofloxacin 100% Norfloxacin 100% Ciprofloxacin 90% Marbofloxacin 65% Difloxacin 26% Sarafloxacin 20% Danofloxacin 65%	96T	Honey	4ppb
Multi-Sulfonamide (11 targets)	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%	96T	Honey	20ppb (Rapid Screen) 3ppb (SPE Screen)
Nitromidazole (Metronidazole)	BXEFB40A	55mins	Metronidazole 100% Dimetridazole >100% Ronidazole <1%	96T	Honey	3ppb
SEM FAST	BXEFB44A	45mins	2.NP.SEM 100%	96T	Honey I Honey II	0.1ppb 0.1ppb
Streptomycin FAST	BXEFB37A	60mins	Streptomycin 100% Dihydrostreptomycin 129%	96T	Honey	5ppb
Tylosin	BXEFT13A	50mins	Tylosin A 100%	96T	Honey	1ppb

Key Benefits of BFD Honey Analysis

- No expensive analyser required.
- Rapid result time.
- Suitable for high throughput automation.
- Detection limits meet EU regulations.
- Minimal technical expertise required.
- Nitrofurant multiplex sample preparation.
- Spiking solution provided.
- Ready-to-use Nitrobenzaldehyde.
- Dedicated 4-parameter curve software.



Which Test Method is Right for Your Business?

Need	Go with	Why
Quick, on-site decision making	FlowSense	Fast, portable, and easy-to-use screening
Lab-based batch testing	ELISA	Efficient, cost-effective for multiple samples
Official confirmation/reporting	Confirmatory	Mandatory for legal enforcement and dispute resolution
New to testing or small volumes	FlowSense	Easy entry point, low barrier to use
Working in export markets	FlowSense + Confirmatory	Screen with FlowSense, confirm as needed

✓ Our Recommendation: Combine and Conquer

1. Screen with FlowSense
2. Batch test with ELISA
3. Confirm when needed

Honey Quality

Rapid, easy-to-use and cost-effective honey quality tests

To determine honey quality measurements Biorex Food Diagnostics has developed a range of enzymatic tests. These tests offer honey producers the ability to determine not only quality, but also shelf life and ability to hold moisture.

With minimal capital outlay for the PRISM instrument and easy-to-use interface, these tests can be used with very little technical expertise outside a laboratory environment.

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

Instrumentation & Laboratory Equipment

We also offer a range of instrumentation for honey testing and a full laboratory service with additional training available. Instrumentation includes: plate reader, sample evaporator, centrifuge, multi-vortexer, pH meters, pipettes, PRISM and consumables.



Our **Laboratory Equipment Catalogue** is now available to view and download online.



BFD
Food Safety Innovation



Biorex Food Diagnostics

BR009BFDAUG25

Copyright © 2024 Biorex Food Diagnostics Ltd. All rights reserved. VAT No.: GB 424802023. Product availability may vary from country to country and some products may be for Research Use Only (RUO). For more information on product application or availability, please contact us.