

Eurofins Technologies Food Pathogen Kits

Foodborne illness (commonly known as food poisoning) is often caused by consuming **food contaminated with bacteria and/or their toxins, parasites, viruses, chemicals**, or other agents. The detection of these harmful food pathogens in raw and processed foods with the help of rapid and sensitive technologies throughout the entire production chain is essential in order to **protect consumers** against possible health consequences and to **minimize risks and costs** for the food industry.

Classic cultural methods for bacteria are time-consuming and laborious. The use of rapid molecular methods is becoming increasingly important for microbiological laboratories.

Eurofins GeneScan Technologies' selection of **PCR** and **ELISA kits** for the detection of food pathogens offer laboratories **fast** and **reliable results**. Due to their **flexible design**, they are suitable for the testing of both low and high throughput sample volumes.

BACGene Real-Time PCR Kits

Real-time PCR is an essential method in modern food analysis that delivers substantially faster results than the classic detection methods. With the BACGene Real-Time PCR kits, we offer a **reliable** and **particularly sensitive** solution for the detection of the most relevant food-related pathogens.

BACSpec ELISA Kits

In addition to real-time PCR kits, Eurofins GeneScan Technologies offers BACSpec ELISA kits for the **fast** and **convenient** detection of *Salmonella* and *Listeria*. BACSpec ELISA kits can be used in **fully automated** laboratory solutions, that are in place in many laboratories today.



RT PCR Kits

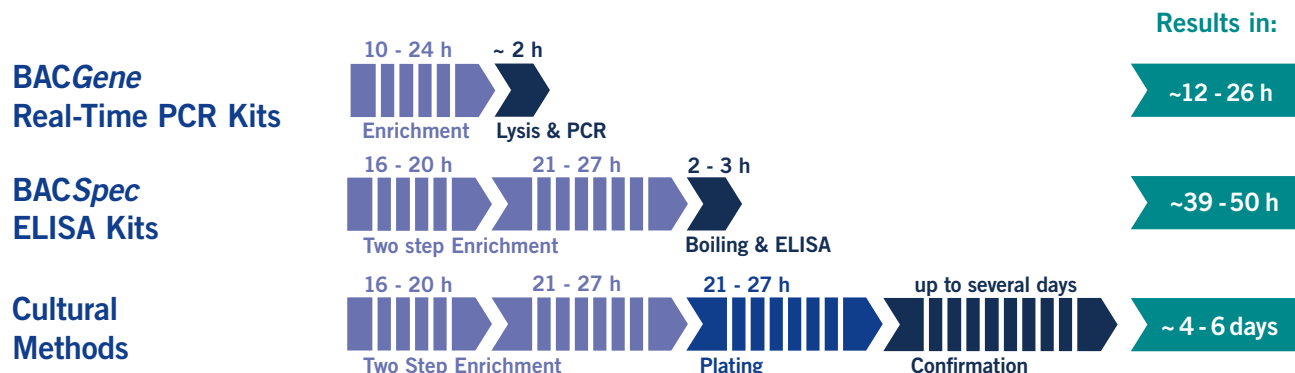


ELISA Kits

Eurofins Technologies

Food Pathogen Kits

Saving Time with BACGene and BACSpec



Key Benefits of BACGene Real-Time PCR Kits

BACGene kits contain all reagents and consumable for lysis and real-time PCR. **Multiplex PCR systems** were developed for several assays, allowing the detection of these particular pathogens in one reaction. Due to aligned workflows **different BACGene real-time PCR kits can be run simultaneously.**

- Simple thermal lysis protocols, fast analysis time
- Single enrichment step (with BHU subsampling for difficult matrices; e.g. cocoa-containing)
- Ready to use MasterMix
- Internal positive controls (IPC)
- Open platform
- Validated and certified for: Agilent AriaMx™; Bio-Rad CFX96 Touch™; Bio-Rad CFX96 Touch™ Deep Well
- AOAC Performance Tested Methods certified
- Certified NF Validation by AFNOR Certification

BACGene Real-Time PCR Kit Portfolio



Article no.	Product	No. of reactions	Product Description
5123221801 5123221810	BACGene <i>Salmonella</i> spp.	96 10x96	Kit for 96 or 10x96 lysis and real-time PCR reactions for <i>Salmonella</i> spp. detection. AOAC-PTM (#121501), NF VALIDATION (EGS 38/01-03/15)
5123222801	BACGene <i>Salmonella</i> Tranoroa	48	Detection of serovar <i>Salmonella enterica</i> subsp. <i>salamae</i> serovar Tranoroa. Increased control over cross contamination due to UNG digestion in the PCR Workflow. For use with Agilent AriaMx and Bio-Rad CFX96 (Standard and Deep Well).
5123222701 5123222711	BACGene <i>E.Coli</i> O157:H7	96 10x96	Lysis and real-time PCR reactions for detection of <i>E. coli</i> O157:H7. AOAC-PTM (#22002), NF VALIDATION (EGS 38/06-11/19)



BACGene Real-Time PCR Kit Portfolio

Article no.	Product	No. of reactions	Product Description
5123222001 5123222010	BACGene <i>Listeria monocytogenes</i>	96 10x96	Kit for 96 lysis and real-time PCR reactions for detection of <i>Listeria monocytogenes</i> . AOAC-PTM (#061703), NF VALIDATION (EGS 38/03-01/17)
5123222101 5123222110	BACGene <i>Listeria</i> spp.	96 10x96	Kit for 96 lysis and real-time PCR reactions for detection of <i>Listeria</i> spp. AOAC-PTM (#061702), NF VALIDATION (EGS 38/02-01/17)
5123221901 5123221910	BACGene <i>Listeria</i> Multiplex	96 10x96	Kit for 96 lysis and real-time PCR reactions for multiplex detection of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp. AOAC-PTM (#061701), NF VALIDATION (EGS 38/05-03/17)



BACGene *E.coli* Mplex STEC Solution Kits

Shiga toxin-producing *E.coli* strains (STECs) are a pathogenic subcategory of the otherwise mostly harmless *Escherichia coli* bacteria. These STECs have been the cause of numerous food-borne outbreaks in recent years and can lead to severe diseases such as haemolytic uremic syndrome (HUS). *E.coli* O157:H7 is the most prominent of the Top7 STECs, which are considered the most relevant regarding human health.

Article no.	Product	No. of reactions	Product Description
5123223001 5123223011	BACGene Mplex STEC Screen	96 10x96	Kit for 96 or 10x96 lysis and real-time PCR reactions for detection of the <i>stx1</i> , <i>stx2</i> and <i>eae</i> genes in various matrices. AOAC-PTM (#22003)
5123223101	BACGene Mplex STEC SEROtype1	48	Kit for 48 lysis and real-time PCR reactions for detection of three of the Top6 STEC serogroups. (O111, O103, O26) AOAC-PTM (#22003)
5123223201	BACGene Mplex STEC SEROtype2	48	Kit for 48 lysis and real-time PCR reactions for detection of three of the Top6 STEC serogroups. (O145, O121, O45) AOAC-PTM (#22003)



PREraser BACGene - Elimination of free DNA

Eurofins GeneScan Technologies has developed PREraser BACGene, a new technology that eliminates free DNA from samples and thereby **reduces the number of unconfirmed positive PCR results** without having a negative effect on living pathogens. The PREraser BACGene treatment is an **optional step after enrichment** and prior to lysis, easy to integrate into the workflow of all BACGene real-time PCR kits.

Article no.	Product	No. of reactions	Product Description
5123222201	PREraser BACGene	2x48	PREraser DNA BACGene, 2 x 48 reactions for elimination of free DNA from pathogen enrichments. Applicable with all BACGene kits. All reagents and lysis plate included.

Eurofins Technologies Food Pathogen Kits



Key Benefits of BACSpec ELISA Kits

- Rapid (48h analysis), convenient and sensitive detection compared to conventional methods
- Simple evaluation with basic equipment requirement: microplate reader, incubator
- High specificity, high confidence in analytical results for routine screening of food, feed and environmental samples
- Seamless integration with fully automated ELISA robots

BACSpec ELISA Kits Portfolio



Article no.	Product	No. of tests	Product Description
4323410301 4323410305	BACSpec Salmonella 2	96 5 x 96	ELISA test kit for qualitative detection of Salmonella spp. AOAC-PTM (#111903), NF VALIDATION (EGS 38/07-12/20)
4323410201 4323410205	BACSpec Listeria	96 5 x 96	ELISA test kit for qualitative detection of Listeria AOAC-PTM (#051703), NF VALIDATION (EGS 38/04-01/17)

Automation Solutions for Pathogen Detection



ThunderBolt®



The Bolt™

Eurofins Technologies offers a selection of innovative, fully-automated, user friendly and compact instruments that are the standard platforms for our ELISA-based food testing kits.

The BACSpec ELISA Kits enable an automated workflow using the Gold Standard Diganotics' **BOLT™** and **Thunderbolt®** resulting in significant **savings of hand-on time** required to run the analysis in the laboratory.

BACGro™ Culture Media



In addition to real-time PCR and ELISA assays, Eurofins Technologies offers a great variety of high quality culture media products in compliance with global standards.

- Easy to prepare media for pathogen screening
- High standards in quality and performance
- Consistency in results, compliant with a wide range of reference methods
- Different package sizes are available to suit the needs for both high and low volume laboratories

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