



Fast and Sensitive Food Pathogen Testing with BACGene Real-Time PCR Solution

As a reliable and sensitive method, real-time PCR is an important technique in modern food analysis to deliver fast results. Gold Standard Diagnostics' BACGene real-time PCR kit portfolio has been developed specifically for the fast detection of **Salmonella**, **Listeria** and **E.coli** including **STEC** especially for food and feed matrices.

Additionally, *PREraser* BACGene can be easily integrated as an optional step to target free DNA from samples and reduce the number of unconfirmed positive PCR results, without having a negative effect on living pathogens.

Simplify Your Food Analysis With BACGene Real-Time PCR Kits:

- Fast analysis time due to:
 - Simple enrichment steps without the use of additives
 - Harmonized thermal lysis protocol amongst all kits
 - Ready-to-use master mix in separable 96-well strip plate
- *PREraser* BACGene for the elimination of free DNA (optional)
- Open PCR platform use: validated for use on Agilent AriaMX or BioRad CFX systems
- All BACGene kits can be performed simultaneously in the same PCR run

Overview BACGene Portfolio

Salmonella Solution

- Fast enrichment: 10 h for meat, 16 h for all foods
- Certified by NF Validation by AFNOR & AOAC® Research Institute
- Co-enrichment of *E.coli* STEC & *Salmonella* in one broth
- Offering of *S. tranoroa* detection kit as a process control strain

Listeria Solution

- Fast enrichment: 18 h
- Certified by NF Validation by AFNOR & AOAC® Research Institute
- *Listeria* spp. and *Listeria monocytogenes* detection separately and combined in one multiplex assay available

E.coli / STEC Solution

- Certified by AOAC® Research Institute
- Fast 10-24h enrichment AFNOR validated workflow for *E.coli* O157:H7 for raw milk products
- One screening assay to detect STEC risk associated markers (*stx1*, *stx2*, *eae*), multiplex approach to detect STEC Top7 serotypes

Legionella Solution

- Single colony confirmation assay
- Simple heating step for cell lysis



Product	Catalogue Number	Reactions
BACGene <i>Salmonella</i> spp.	5123221801	96
BACGene <i>Salmonella</i> Tranoroa	5123222801	48
BACGene <i>Listeria</i> spp.	5123222101	96
BACGene <i>Listeria monocytogenes</i>	5123222001	96
BACGene <i>Listeria</i> Multiplex	5123221901	96
BACGene <i>E. coli</i> O157:H7	5123222701	96
BACGene Mplex STEC Screen	5123223001	96
BACGene Mplex STEC SEROtype1	5123223101	48
BACGene Mplex STEC SEROtype2	5123223201	48
BACGene <i>Legionella</i> Multiplex	5123222601	96
PREraser BACGene	5123222301	2 x 48