

# BAX® System

## Real-Time PCR Assay for *E. coli* O157:H7

The BAX® System portfolio of pathogenic *E. coli* assays offers consistent accuracy, reliability, and convenience with flexibility to meet diverse testing needs. The BAX® System uses DNA-based technology to provide same-day results that are reliable and reproducible, allowing food producers and processors to quickly and accurately release safe products to the market.



### Features & Benefits:

- Clear yes-or-no results in as little as 10 hours for select matrices
- Adopted by the United States Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for detecting *Escherichia coli* O157:H7 in meat products and carcass and environmental sponges
- Carefully designed primers target specific genetic sequences possessed only by the target organisms
- Minimal components and simplified workflows to maximize efficiency and ease-of-use
- Validated to perform as well or better than standard reference methods for listed product types
- Compatible with many other BAX® System assays for efficient processing
- Internal controls included in every test to validate results even in absence of target
- Flexible protocols available to meet your unique workflows



QUA 18/07-07/10  
Alternative Analytical  
Methods for Agribusiness  
<http://nf-validation.afnor.org/en>

### Validations, Certifications and Adoptions:

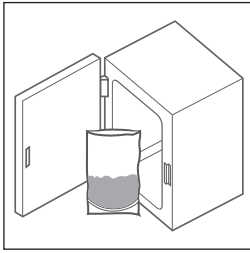
- **AOAC Research Institute**  
Performance Tested Method<sup>SM</sup> #031002  
Validated on ground beef, beef trim, spinach and lettuce
- **NF VALIDATION certificate granted by AFNOR Certification** #QUA 18/07-07/10  
(Validation study performed in accordance with EN ISO 16140-2) Certified according to AFNOR validation rules for raw beef meats and raw vegetables
- **USDA-FSIS** #MLG 5A.04 – for meat products and carcass and environmental sponges
- **Health Canada** MFLP-76 - for the detection of *E. coli* O157:H7 in raw ground beef and raw beef trim

Legacy Order Code	Hygiena Product Code	Description	Quantity
D12863877	KIT2000	BAX® System Real-Time PCR Assay for <i>E. coli</i> O157:H7	96 tests per kit

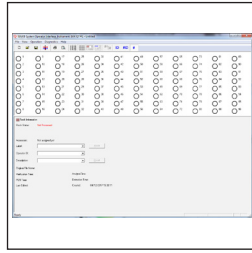


Find support documents, instructional videos, and more at [www.hygiena.com](http://www.hygiena.com)

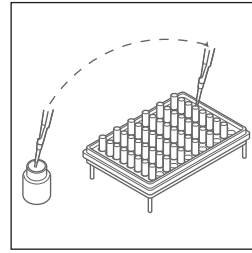
# BAX® System Protocol



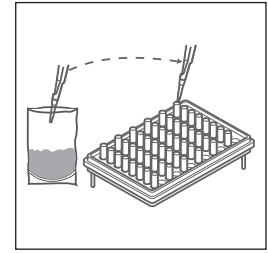
Enrich Samples.



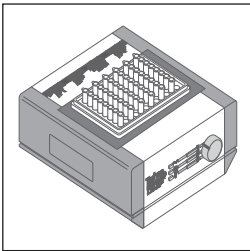
Create rack file and warm up cycler.



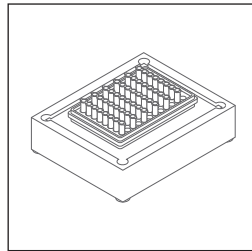
Mix protease with lysis buffer and transfer 200 µL of mixture to cluster tubes.



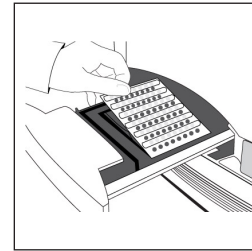
Transfer 20 µL sample to cluster tubes.



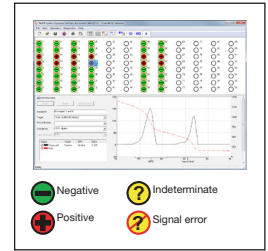
Place samples on automated thermal block for lysis and cooling.



Transfer 30 µL of lysed sample to PCR tubes in cooling block.



Place sealed PCR tubes in cycler and immediately click "NEXT" to run program.



Review results.

## Related Products

### BAX® System MP Media

Available enrichment media for customers looking to take full advantage of the rapid time-to-result and ease-of-use offered by select BAX® System *E. coli* and *Salmonella* assays.

### StatMedia™ Soluble Packets

Gamma-irradiated BAX® System MP Media in convenient, water-soluble packets for reduced mess and preparation. Simply drop in pre-warmed sterile water and mix with sample.

### BAX® System Real-Time PCR Assays – STEC Suite

Designed to identify the top six non-O157 Shiga toxin-producing *E. coli* (STEC) defined by the USDA Food Safety and Inspection Service (FSIS) as adulterants in the United States' beef industry.

### BAX® System Real-Time PCR Assay for *Salmonella*

Uses real-time PCR technology to reduce processing time to about one hour, helping food companies make product release decisions with speed and confidence.

Legacy Order Code	Hygiene Product Code	Description	Quantity
D12404925	MED2003	BAX® System MP Media	2.5 kg tub
D12745725	MED2016	StatMedia™ Soluble Packets	20x5x33.75g
D14642964	KIT2021	BAX® System Real-Time PCR Assay for STEC Screening	96 tests per kit
D14642970	KIT2008	BAX® System Real-Time PCR Assay for STEC Panel 1	48 tests per kit
D14642987	KIT2009	BAX® System Real-Time PCR Assay for STEC Panel 2	48 tests per kit
D14306040	KIT2006	BAX® System Real-Time PCR Assay for <i>Salmonella</i>	96 tests per kit



Find support documents, instructional videos, and more at [www.hygiene.com](http://www.hygiene.com)