

BAX[®] System Q7

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 9 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>



QUA 18/11 - 12/20
Alternative Analytical
Methods for Agribusiness
<http://nf-validation.afnor.org/en>

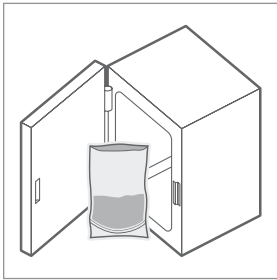


Validations, Certifications and Approvals:

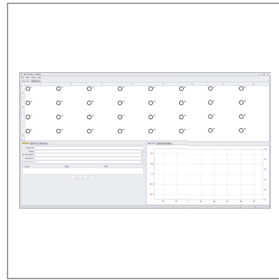
- **AOAC Research Institute**
*Performance Tested Method*SM #031002
Validated on ground beef, beef trim, spinach and lettuce
- **NF VALIDATION – certificate granted by AFNOR Certification** QUA 18/07 – 07/10
Certified according to AFNOR validation rules for raw beef meats and raw vegetables
- **NF VALIDATION – certificate granted by AFNOR Certification** QUA 18/11 – 12/20
For raw beef meats, raw dairy products and vegetable products
- **USDA-FSIS**
#MLG 5A.04
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

Product No.	Description	Quantity
KIT2000	BAX [®] System Real-Time PCR Assay for <i>E. coli</i> O157:H7	96 tests per kit

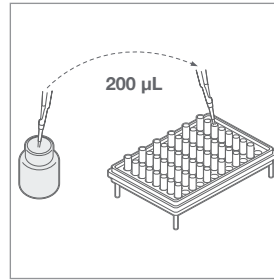
BAX System Protocol*



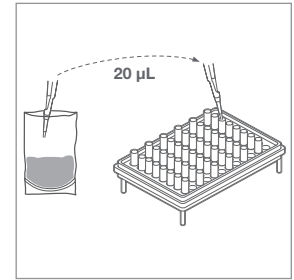
Enrich samples.



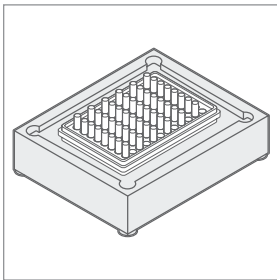
Create rack file and warm up cycler.



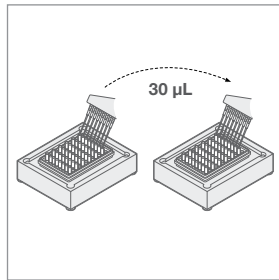
Add protease to lysis buffer bottle, mix then dispense 200 µL of solution into cluster tubes.



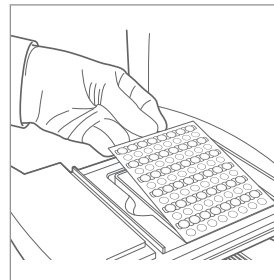
Transfer 20 µL sample enrichment to cluster tubes.



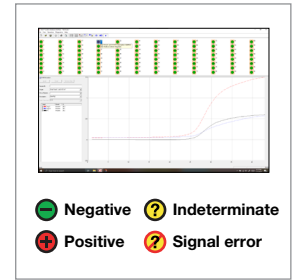
Place samples on automated thermal block for lysis and cooling.



After transferring lysates to PCR tubes in a cooling block, hold for 10-30 minutes.



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



Review results.

*Refer to Ready Reference Guide for detailed steps.

Related Products

BAX System MP Media

Available enrichment media for customers looking to take full advantage of rapid time-to-results 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 before adding 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.

Product No.	Description	Quantity
MED2003	BAX® System MP Media	2.5 kg tub
MED2016	StatMedia™ Soluble Packets	20 x 5 x 33.75 g
KIT2021	BAX® System Real-Time PCR Assay for STEC Screening	96 tests per kit
KIT2008	BAX® System Real-Time PCR Assay for STEC Panel 1	48 tests per kit
KIT2009	BAX® System Real-Time PCR Assay for STEC Panel 1	48 tests per kit
KIT2006	BAX® System Real-Time PCR Assay for <i>Salmonella</i>	96 tests per kit