BAX® System

Real-Time PCR Assay Suite for STEC

The BAX® System Real-Time PCR Assay Suite for STEC is 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 American beef industry. The BAX® System STEC suite can help food companies test for these pathogens and make product release decisions with confidence. The screening assay for *stx* and *eae* clears negative samples fast, while two multiplex panel assays detect and differentiate the top six STEC serogroups.

PERFORMANCE TESTED
AOAC
RESEARCH INSTITUTE
LICENSE NUMBER 091301

Features & Benefits:

- Clear yes-or-no results in as little as 12 hours for select matrices
- Adopted by the United States Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for confirming the presence of Shiga toxin genes in meat products and carcass and environmental sponges
- STEC Screener: multiplex technology generates a positive when both *stx* and *eae* targets are detected
  - *Stx* only option generates a positive result any time *stx* is detected, even in absence of *eae*
- STEC Panel 1 and Panel 2: multiplex technology generates a positive when any one of three *E. coli* serogroups are detected
- Internal controls included to validate results even in absence of target
- Compatible with many other BAX® System assays for efficient processing

Validations, Certifications and Adoptions:

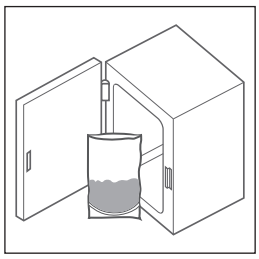
- **AOAC Research Institute**
  Performance Tested Method℠ #091301
  Validated for raw ground beef, raw ground beef with soy, raw beef trim, flour

- **USDA-FSIS MLG 5B.09** for Shiga toxin confirmation in meat products and carcass and environmental sponges

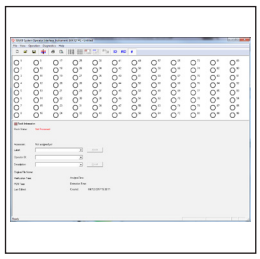
Hygiena Product Code	Legacy Order Code	Description	Quantity
KIT2021	D14642964	BAX® System Real-Time PCR Assay for STEC Screening	96 tests per kit
KIT2008	D14642970	BAX® System Real-Time PCR Assay for STEC Panel 1	48 tests per kit
KIT2009	D14642987	BAX® System Real-Time PCR Assay for STEC Panel 2	48 tests per kit

Find support documents, instructional videos, and more at **www.hygiena.com**

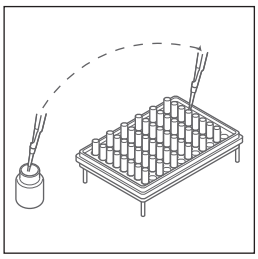
BAX® System Protocol



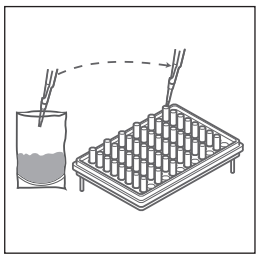
Enrich Samples.



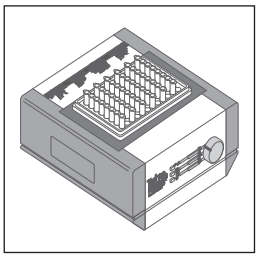
Create rack file and warm up cycler.



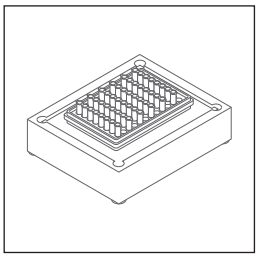
Mix protease with lysis buffer and transfer 200 µL of mixture to cluster tubes.



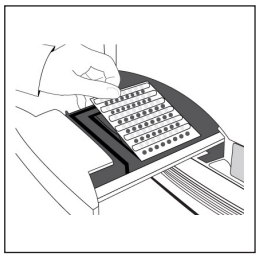
Transfer 20 µL sample to cluster tubes.



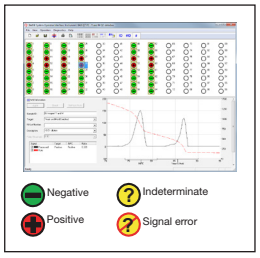
Place samples on automated thermal block for lysis and cooling.



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



Place sealed PCR tubes in cycler and run program.



Review results.

Related Products

BAX® System Real-Time PCR Assay for *E. coli* O157:H7
Real-time PCR assay providing same-day results that are reliable and reproducible, allowing food producers and processors to quickly and accurately release safe products to the market.

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 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.

Hygiena Product Code	Legacy Order Code	Description	Quantity
KIT2000	D14203648	BAX® System Real-Time PCR Assay for *E. coli* O157:H7	96 tests per kit
MED2003	D12404925	BAX® System MP Media	2.5 kg tub
MED2016	D12745725	StatMedia™ Soluble Packets	20x5x33.75g
KIT2006	D14306040	BAX® System Real-Time PCR Assay for *Salmonella*	96 tests per kit

Find support documents, instructional videos, and more at **www.hygiena.com**