

DuPont Qualicon BAX[®] System

PCR ASSAY FOR *E. COLI*O157:H7

PRODUCT DESCRIPTION

The US meat industry spends millions of dollars each year in safety research on *E. coli* O157:H7, yet *E. coli* still cause more than 70,000 cases of food-borne illness each year, according to the Centers for Disease Control and Prevention (CDC). The BAX[®] system PCR assay can help meat packers and processors detect *E. coli* O157:H7 quickly, avoiding the serious financial impact of food recalls.



BAX[®] System PCR Assay *E. coli* O157:H7

Part # D11000125 (prev. 17710611)

96 tests per kit

PCR tubes with tablets, optical caps,
protease, lysis buffer

Store at 2-8°C

Stable to expiration date on label

Benefits

- Speed – Next day results
- Accuracy – Automated DNA-based analysis instead of subjective plate counts
- Exceptional sensitivity – Reliably detects 10⁵ cfu/mL in enriched samples
- Ease of use – Tableted reagents reduce operator error
- Closed-cap system avoids amplicon contamination in the lab
- LIMS-compatible electronic data for easy storage, sharing and retrieval
- Designed for efficient workflow and reliable results

Features

- Optimized medium allows for shortened enrichment time (as few as 14 hours); 8 hours with immunomagnetic separation step (IMS)
- Validated on raw ground beef and beef trim
- Specificity >99%
- Excellent inclusivity (including *E. coli* O157:HNM)
- Excellent exclusivity (except *E. coli* O55:H7)

Certifications

- AOAC Research Institute Performance Tested MethodSM #010401



This test kit's performance was reviewed by AOAC Research Institute and was found to perform to the manufacturer's specifications.

Validations and Approvals

- Health Canada
- Russia Rospotrebnadzor



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Sample preparation



Prepare samples.

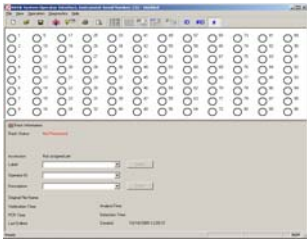
Homogenize raw ground beef or beef trim samples in modified EC broth with novobiocin. Incubate at 37±1°C for 14-24 hours, depending on the work flow of your lab.

A shortened enrichment using an immunomagnetic separation step (IMS) may be used in combination with BAX® system *E. coli* O157:H7 MP media on raw ground beef (see the *BAX® System User Guide*).

For other foods, refer to the *BAX® System User Guide*.

BAX® system protocol

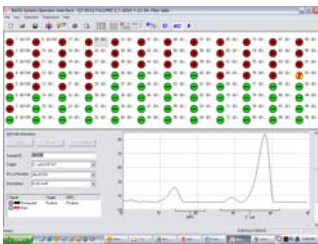
8:00 Create rack file and warm up cycler.



8:20 Heat cluster tubes for 20 minutes at 37°C, then 10 minutes at 95°C.



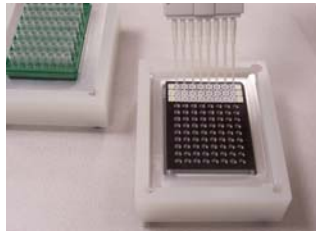
12:30 Review results.



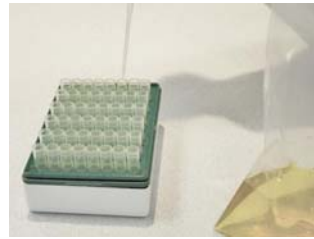
8:05 Mix protease with lysis buffer and transfer 200 µL of lysis reagent to cluster tubes.



8:50 Cool cluster tubes for 5 minutes in cooling block, then transfer 50 µL to PCR tubes in cooling block.



8:10 Transfer 5-µL* samples to cluster tubes.



9:00 Place sealed PCR tubes in cycler and run program.



*See the *BAX® System User Guide* for IMS protocol sample volume.

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