

# DuPont Qualicon BAX<sup>®</sup> System

PCR ASSAY FOR GENUS *LISTERIA* 24E

## PRODUCT DESCRIPTION

*Listeria* species are indicator organisms whose detection can indicate that pathogenic *Listeria monocytogenes* is present. *Listeria monocytogenes* can cause serious illness in persons with heightened susceptibility, especially pregnant women and immunocompromised persons. Traditional culture methods can take four days or more to get results, and many rapid methods require a two-stage, 48-hour enrichment. With this BAX<sup>®</sup> system assay, however, accurate and reliable results are available the next day with a single-step, 24-hour enrichment.



### Benefits

- Speed – Single-stage enrichment complete in only 24 hours
- Accuracy – Automated DNA-based analysis
- Exceptional sensitivity – Detects 10<sup>4</sup> cfu/mL
- 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

### BAX<sup>®</sup> System PCR Assay Genus *Listeria* 24E

Part # QB8135C

96 tests per kit

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

Store at 2-8°C

Stable to expiration date on label

### Features

- PCR processing completes in 3.5 hours
- Can be run in mixed batches with other BAX<sup>®</sup> system standard assays
- Validated on meat, seafood, dairy, vegetable and environmental samples
- Detects all species of *Listeria* except some strains of *L. grayi*
- 100% exclusivity
- Next-day results with 24 LEB media (CM1107/SR0243E)

### Approvals

- AFNOR validated to ISO 16140; Certificate number QUA 18/06 – 07/08



The miracles of science™

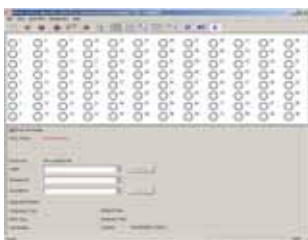
## Sample preparation



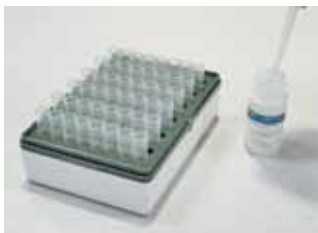
**Enrichment:** Homogenise samples (1:10) in prepared 24 LEB (CM1107/SR0243E) using filterless stomacher bags. Incubate 24 hours at 37°C.

## BAX® system protocol

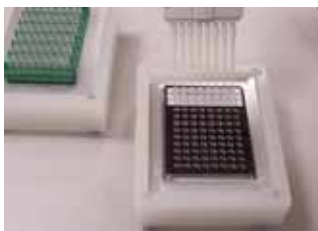
**10:00** Create rack file and warm up cyclor.



**10:50** Mix protease with lysis buffer and transfer 200 µL of lysis reagent to new cluster tubes.



**11:45** Hydrate PCR tablets in second cooling block with 50 µL of chilled lysate.



**10:05** Dilute Lysing agent 1 with 1.8 mL sterile water, and combine in 4:1 ratios with Lysing agent 2.



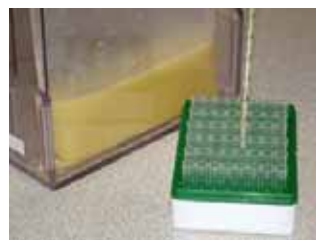
**10:55** Transfer 5 µL of lysate to cluster tubes.



**11:50** Place sealed PCR tubes in cyclor and run program.



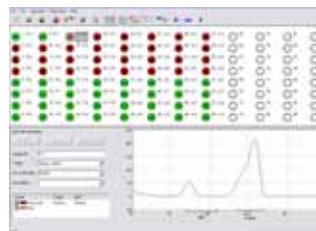
**10:10** Transfer 50 µL of combined agents to cluster tubes, then add 0.5 mL enriched sample and incubate for 30 minutes at 37°C.



**11:00** Heat cluster tubes for 30 minutes at 55°C, then 10 minutes at 95°C. Cool for 5 minutes in lysis cooling block.



**3:20** Review results.



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