

# DuPont Qualicon BAX® System

REAL-TIME PCR ASSAY FOR

*VIBRIO CHOLERAE/PARAHAEMOLYTICUS/VULNIFICUS*

## PRODUCT DESCRIPTION

Vibrio are frequently found in coastal waters and other brackish environments, and pathogenic species can cause gastrointestinal illness when ingested by humans. Foodborne infection is typically associated with eating raw or undercooked fish and shellfish, especially oysters. For seafood processors and inspectors, current culture methods require at least 3-5 days for results and subjective interpretation. The BAX® System Vibrio assay, however, delivers differentiated results that are reliable and highly specific in less than 24 hours.



BAX® System Real-Time PCR Assay

*Vibrio cholerae/  
parahaemolyticus/vulnificus*

Part # D1 2863877

96 tests per kit

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

Store at 2-8°C

## Benefits of the BAX® System Real-Time PCR Assay

- Speed - Reliable results within 24 hours
- Accuracy - clear and reproducible results, independent of operator technique
- Ease of use - minimal hands-on time, tableted PCR reagents and automated processing and analysis reduce operator error
- Convenience - pre-packaged PCR reagent tablets provide consistency, stability and long shelf-life
- Support – customer-focused dependability from DuPont Qualicon to answer your questions and keep your operation running smoothly

## Features

- Up to 96 enriched samples processed in about one hour
- Clear, reproducible yes-or-no results for *V. cholerae*, *V. parahaemolyticus* and *V. vulnificus*
- Reliably detects 10<sup>4</sup> cfu/mL
- Excellent inclusivity/exclusivity for all three target species
- Internally validated on oysters, shrimp, scallops, crab and tuna
- LIMS-compatible electronic data for easy storage, sharing and retrieval
- Can be run with other BAX® System real-time assays
- Includes all lysis reagents needed for processing
- Step-by-step instructions in each package

## Certifications

- AOAC Research Institute Performance Tested Method<sup>SM</sup> #050902



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



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# BAX® SYSTEM REAL-TIME PCR ASSAY FOR VIBRIO CHOLERAE/PARAHAEMOLYTICUS/VULNIFICUS

## Sample preparation

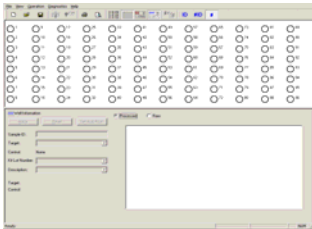


Stomach or blend 25 g sample with  
225 mL alkaline peptone water.

Incubate at 35°C for 18-20 hours.

## BAX® system protocol

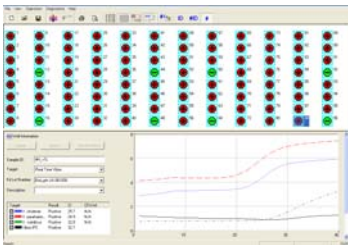
**8:00** Create rack file and  
warm up cyclor.



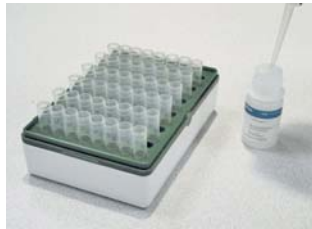
**8:20** Heat cluster tubes for  
20 minutes at 37°C, then 10  
minutes at 95°C.



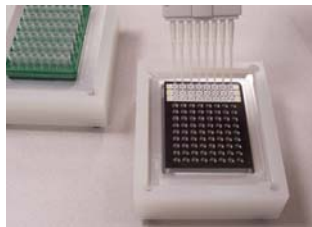
**10:05** Review results.



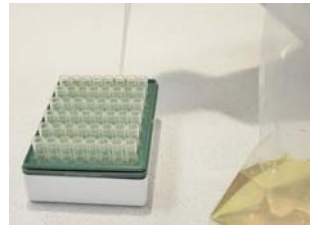
**8:05** Mix protease with lysis buffer  
and transfer 200 µL of lysis  
reagent to cluster tubes.



**8:50** Cool cluster tubes for 5  
minutes in cooling block, then  
transfer 30 µL to PCR tubes in  
cooling block.



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



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



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