Vibrio PCR Detection Kit

Cat. No. *FPD-041*

Lot. No. (See product label)

Product Name

Vibrio PCR Detection Kit

Product Overview

Vibrio PCR Detection kit is designed to reliably detect Vibrio species: *Vibrio* parahaemolyticus, *Vibrio cholera*, and *Vibrio vulnificus*.

Description

The *Vibrio* PCR Detection kit is a multiplex test based on gene amplification and detection by real-time PCR. This test allows the qualitative detection of *V. cholerae*, *V. parahaemolyticus*, and *V. vulnificus* in food samples previously enriched by culture. The main targeted matrices are seafood, including fish and shellfish (mollusks and crustaceans).

Species

Vibrio species

Applications

Food safety

Warning

This test must be performed by trained personnel.
Samples and enrichment cultures must be handled as potentially infectious material and discarded according to local rules and regulations.
All potentially infectious material should be autoclaved before disposal.

Size

96 tests

Kit Components

Lysis reagent for DNA extraction
Fluorescent probes
PCR amplification mix
Positive and negative PCR controls

Materials Required but Not Supplied

A. Equipment
Lab paddle blender for homogenizing test samples
Incubator for sample microbiological enrichment
Specific for extraction in sterile 1.5 mL conical screwcap tubes
-Dry heat block at 37 ± 2℃ and/or 95-100℃
Specific for extraction in deep well plate:
-Heating thermoshaker capable of maintaining 37 ± 2℃ and/or 95-100℃, with a mixing speed of at least 1,300 rpm
Vortexer
20, 200, and 1,000 µL micropipets
Tips for repeat pipettors; sterile, individually packaged
B. Supplies
Enrichment medium
Chloramphenicol
Free DNA Removal Solution
Purification Reagent
Ethanol,96%
Filter sample bags
Powder-free gloves
Distilled sterile wate

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Bleach, 5%

Technical Notes

PCR detection kit is based on the fast, sensitive, and proven technology of real-time PCR.

Assay Protocol

A. Sample Enrichment
Homogenize n g of sample in 9 × n mL of VEB or ASPW or ASW (for example, 25 g in 225 mL) in a mixing bag with a lab paddle blender.
For VEB, incubate, without shaking, for 8 ± 1 h at 35 ± 1℃ or 37 ± 1℃. Please refer to applicable local standards, regulations, and/or recommendations.
For ASPW or ASW, please refer to applicable local standards, regulations, and/or recommendations for incubation time and temperature.
B. Free DNA Removal Treatment
C. DNA Extraction
Turn on the heat block or thermoshaker to preheat before starting the test. Set it to 95-100℃. Keep the lysis reagent in suspension while pipetting by stirring at medium speed on a magnetic stir plate.
1. Add 100 µL of lysis reagent to all wells of the deep well plate or to tubes that contain enriched samples untreated or treated with the Free DNA Removal Solution.
2. Mix by pipetting up and down, and then close the tubes with caps or seal the deep well plate with prepierced sealing film.
3. Incubate the tubes in the appropriate heat block at 95-100℃ for 15-20 min or the deep well plate in the thermoshaker for 15-20 min at a mixing speed of 1,300 rpm minimum.
4. If using a deep well plate, allow it to cool to room temperature (20-25℃).
D. Real-Time PCR
E. Data Analysis

Sample Type

Seafood

Max no. of Samples

94

Storage

This product should be stored at 2-8℃. Reagents stored at this temperature can be used until the expiration date indicated on the tubes.

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