

DETECTION OF VIBRIO CHOLERAEE

Vibrio cholerae and Cholera

Vibrio cholerae is a pathogen of the human disease cholera. Vibrio cholerae is well-known as a waterborne pathogen and is also increasingly recognized as the cause of foodborne infections. Toxigenic Vibrio cholerae that produces cholera toxin is responsible for the deadly disease 'cholera,' which is coded as 001 in the International Classification of the Diseases.

Transmission

Like other foodborne pathogens, transmission of V. cholerae occurs through secondary contamination coupled with its long-term survival in foods. Improper control measures and deteriorating status of drinking water, sanitation, and hygiene in many developing countries will perpetuate the disease cholera.

Ecology

The main reservoirs of V. cholerae are aquatic sources such as rivers, brackish waters, and estuaries, often in association with copepods or other zooplankton, shellfish, and aquatic plants.



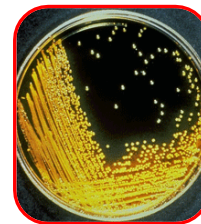
V. cholerae Detection with Culture / PCR

Sample

- Water Samples, 100ml
- Food Samples, 100gm

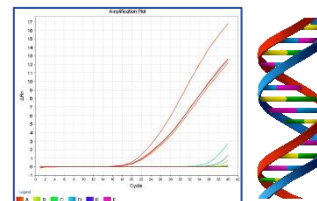
Detection Methods

- Culture Media Analysis
- TAT : 3 days, Qualitative



Real Time PCR Analysis

- TAT : 2 days, Qualitative



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