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Abstract

The present invention simply, rapidly and accurately detects, quantitatively determines and types genes of protein groups [which refer to TDH (Thermostable direct hemolysin), TRH (TDH-related hemolysin) and other analogous hemolysin proteins, hereinafter referred to as TDH-related toxins] of thermostable hemolysin groups produced by pathogenic bacteria of the genus *Vibrio*.

Present Invention provides a method which enables detection and quantitative determination of actual TDH-related toxin-producing bacteria, which are important in food hygiene control.

Using a primer pair which contains gene sequences encoding common amino acid sequences of TDH and TRH, TDH-related toxin genes are comprehensively detected and determined, thereby TDH-related toxin-producing bacteria themselves are detected and quantitative determined.



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