

METHOD SUMMARY – QWI-FM0060

Method Title	Vibrio parahaemolyticus Enumeration - MPN AS		
Document number	QWI-FM0060	Date Issued	8 th November 2017

Method External References	AS.1766.2.9 (1997): Food microbiology - Examination for specific organisms – Vibrio parahaemolyticus - Modification API 20E used for identification		
	AS 5013.11.1-2004: Food Microbiology - Microbiology of food and animal feeding stuffs – Preparation of test samples, initial suspension and decimal dilutions of microbiological examination – General rules for the preparation of the initial suspension and decimal dilution		
	AS 5013.14.1-2010: Food Microbiology - Microbiology of food and animal feeding stuffs - General rules for microbiological examinations- section 7.5 (holding temperature of media in water bath)		
Matrix	As listed on NATA Scope.		
ALS Department	<input type="checkbox"/> Pharmaceutical Chemistry <input type="checkbox"/> Water Microbiology <input checked="" type="checkbox"/> Food Microbiology <input type="checkbox"/> Pharmaceutical Microbiology <input type="checkbox"/> Food Chemistry		
Accreditation Status	<input checked="" type="checkbox"/> NATA <input type="checkbox"/> NON-NATA <input type="checkbox"/> N/A		
Analysis technique	<input type="checkbox"/> HPLC <input type="checkbox"/> GC <input type="checkbox"/> Wet Chemistry <input type="checkbox"/> Physical <input type="checkbox"/> Gravimetric <input type="checkbox"/> Qualitative <input type="checkbox"/> Pour Plate <input type="checkbox"/> Spread Plate <input checked="" type="checkbox"/> MPN <input type="checkbox"/> Filtration <input type="checkbox"/> Petrifilm <input type="checkbox"/> EHS <input type="checkbox"/> ELISA <input type="checkbox"/> VIDAS UP <input type="checkbox"/> VIDAS <input type="checkbox"/> TEMPO		
Method Principle	<p>This method documents the procedure for the enumeration of <i>Vibrio parahaemolyticus</i> using the MPN technique.</p> <p>Inoculate three (3) tubes of alkaline peptone water liquid enrichment medium with a specified quantity of the test sample. Subculture enriched medium onto selective isolation medium TCBS agar after 6 - 8 hours of incubation and into another set of tubes of APW incubated at 37 °C for 18 - 24 hours. The second set of APW is then subcultured onto another set of TCBS agar and incubated at 37 °C for 18 - 24 hours. Presumptive colonies of vibrio are confirmed using biochemical reactions.</p>		
Reporting Unit	MPN / g or mL		
LOR/LOQ	< 3.0		

Minimum amount of sample required for analysis	10 g or 10 mL	Turnaround time	3 days
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Author:	Document Controller	Date:	7 th December 2017
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