

METHOD SUMMARY – QWI-FM0072

Method Title	Sulphite Reducing Clostridia Spores - Presence Absence - Triplicate Tube		
Document number	QWI-FM0072	Date Issued	7 th November 2016
Method External References	Gibbs, BM & Freame, B (1965). J. App. Bact. 28 (1), 95-111. "Methods for the Recovery of Clostridia from Foods"		
	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 5013.14-2010: Food Microbiology - Microbiology of food and animal feeding stuffs - General rules for microbiological examinations		
Matrix	Foods		
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 type="checkbox"/> NATA <input checked="" 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 checked="" type="checkbox"/> Qualitative <input type="checkbox"/> Pour Plate <input type="checkbox"/> Spread Plate <input 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 describes a procedure for the determination of the presence or absence of sulphite-reducing <i>Clostridia</i> spores in foods. A food sample is prepared for analysis. 10 mL of the initial suspension is heat treated at 75 ± 2 °C for 30 minutes in a Schott bottle. It is then cooled down to 10 °C prior to being tested. 1 mL of sample is dispensed into 3 x 10 mL of Single Strength DRCM or 10 mL of sample is dispensed into 3 x 10 mL double strength DRCM. Tubes are then incubated at 37 ± 2 °C for 72 ± 2 hours. The number of black tubes are recorded as positive for sulphite-reducing Clostridia. For a positive result to be reported, 2 or 3 tubes must be confirmed positive. Results are reported as sulphite-reducing Clostridia Detected or Not Detected per quantity of sample tested.</p>		
Reporting Unit	Sulphite Reducing Clostridia Detected or Not Detected per weight of sample tested		
LOR/LOQ	< 1		

Minimum amount of sample required for analysis	10 g or 10 mL	Turnaround time	3 days
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Author:	Document Controller	Date:	13 th December 2017
Authorised By:	National Quality Manager	Date	13 th December 2017

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