

METHOD SUMMARY – QWI-FM0058



Method Title	Bacillus cereus – Presence/Absence – Foods		
Document number	QWI-FM0058	Date Issued	30 th January 2020

Method External References	<p>ISO 21871-2006: Based on Microbiology of food and animal feeding stuffs – Horizontal method for the determination of low numbers of presumptive <i>Bacillus cereus</i> – Most probable number technique and detection method.</p> <p>AS 5013.2-2007: Food Microbiology – Food and animal feeding stuffs – Horizontal method for the enumeration of <i>Bacillus cereus</i> Colony Count technique at 30 °C</p> <p>AS 5013.11.1-2018: Based on AS 5013.11.1-2004 - Food Microbiology - Microbiology of the food chain – Preparation of test samples, initial suspension and decimal dilutions of microbiological examination – General rules for the preparation of the initial suspension and decimal dilution</p> <p>AS 5013.14.1-2010: Based on AS 5013.14.1 - Food Microbiology - Microbiology of food and animal feeding stuffs - General requirements and guidance for microbiological examinations section 7.5 (holding temperature of media in water bath)</p>
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 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"/> Other (please specify): _____
Method Scope	This method documents the qualitative analysis of food samples for the detection of <i>Bacillus cereus</i> .
Method Principle	<p>An initial suspension in Tryptone soy polymyxin broth (with supplement) is prepared and incubated at 30 °C for 48 ± 2 hours. The incubated enrichment is transferred to a selective agar MYP (Mannitol egg yolk polymyxin agar) and incubated at 37 °C for 18 – 24 hours.</p> <p>The presence or absence of <i>Bacillus cereus</i> colonies is determined from the confirmation of presumptive colonies on MYP using biochemical analysis. The final result is reported as detected or not detected per amount of sample tested.</p>
Reporting Unit	Detected or Not detected <i>Bacillus cereus</i> in x g or x mL of sample tested
LOR/LOQ	<1

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Minimum amount of sample required for analysis	10 g or 10 mL	Turnaround time	3 days
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Author:	Document Controller	Date:	4 th February 2020
Authorised By:	National Quality Manager	Date:	4 th February 2020

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