METHOD SUMMARY – QWI-FM0031



Method Title Bacillus Cereus Enumeration - AS					
Document number QW		/I-FM0031	Date Issued	10 th May 2019	
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		AS 5013.2 – 2007 Food Microbiology – Food and animal feeding stuffs – Horizontal method for the enumeration of Bacillus cereus Colony Count technique at 30 °C			
Method External References		AS 5013.11.1-2018 Food Microbiology - Microbiology of the food chain – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination – General rules for the preparation of the initial suspension and decimal dilutions (ISO 6887-1:2017, MOD)			
		AS 5013.14.1-2010 Food Microbiology - Microbiology of food and animal feeding stuffs - General rules for microbiological examinations			
Matrix		As listed on NATA Scope.			
ALS Department		 Pharmaceutical Chemistry Water Microbiology Pharmaceutical Microbiology 		Food Microbiology Food Chemistry	
Accreditation Status		✓ NATA □	NON-NATA	□ N/A	
Analysis technique		 □ HPLC □ Physical □ Pour Plate ✓ S □ Filtration □ ELISA □ Other (please specify) 	GC Gravimetric Spread Plate Petrifilm /IDAS UP):	Wet Chemistry Qualitative MPN EHS VIDAS	
Method Scope		This method documents the enumeration of viable presumptive and confirmed <i>Bacillus cereus</i> by means of a colony-count technique using the spread plate method and an incubation temperature of 30 °C. It is applicable to products intended for human consumption and the feeding of animals, and environmental samples in the area of food production and food handling. The confirmation stage includes an additional motility test to help to differentiate <i>B. cereus</i> from <i>B. anthracis</i> in cases where the presence of the latter is suspected. A specified quantity of the test sample if the initial product is liquid, or a specified quantity of an initial suspension in the case of other products, is surface plated onto a solid selective culture medium contained in Petri dishes. Other plates are prepared under the same conditions, using decimal dilutions of the test sample or of the initial suspension. The plates are incubated under aerobic conditions at 30 °C for 18 to 48 hours. The number of <i>B. cereus</i> per gram or per millilitre of sample is calculated from the number of confirmed colonies obtained on plates are used.			

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	confirmation is inconclusive colonies are reported as presumptive <i>Bacillus cereus</i> per amount of product tested.
Reporting Unit	CFU/g or CFU/mL or CFU/swab
LOR/LOQ	<10 or <100

Minimum amount of sample	10 ~	Turnaround	19 hours
required for analysis	10 g	time	40 10015

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