

Technical Datasheet

Analysis Name:	Enumeration of Presumptive <i>Bacillus cereus</i>
Method Number	LIBR 095
Scope of Application:	Product intended for human consumption, animals and environmental samples.
Description:	<p>A quantitative method for the enumeration of presumptive <i>Bacillus cereus</i>. 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 on 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 h to 48 h.</p> <p>Presumptive colonies are sub-cultured onto a sheep blood agar for confirmation by haemolysis.</p>
Sample Weight Required:	25 g
Method Reference:	ISO-7932:2004
Analytical Platform:	Cultural method
Special information	<p>In order to have a workable method, the confirmation phase was restricted to the typical appearance MYP agar and the hemolysis test. Thus, the term "presumptive" was introduced in order to recognize the fact that the confirmatory stage does not allow the distinction of <i>B. cereus</i> from other closely related but less commonly encountered Bacillus species, such as <i>B. anthracis</i>, <i>B. thuringiensis</i>, <i>B. weihenstephanensis</i>, <i>B. mycoides</i>. An additional motility test can help.</p>

Analyte Reported	Unit of Measure	Limit of Quantification
<i>B. cereus</i>	CFU/g	< 10 CFU/g
Presumptive Result	CFU/mL	< 1 CFU/mL