Technical Data Sheet

Bacillus cereus Selective Supplement

Ordering number: 1.09875.0010

Bacillus cereus Selective Supplement contains polymyxin B sulfate in lyophilized form.

Mode of Action

It suppresses the growth of accompanying bacterial flora during culturing Bacillus cereus.

Typical Composition

	per vial	Final concentration per liter
Polymyxin B	50.000 IU	100.000 IU

Preparation

Dissolve the lyophilized supplement by adding 1 ml sterile distilled water. Mix gently until dissolved. For the preparation of GranuCult™ MYP (Mannitol Egg Yolk Polymyxin) Agar (Base) acc. ISO 7932, ISO 21871 and FDA-BAM (article number 1.05267.0500). The dissolved content of one vial is evenly mixed together with 50 ml sterile Egg-Yolk Emulsion (article number 1.03784.0001) into 450 ml of sterile, still liquid medium cooled to 45-50 °C.

Storage

Usable up to the expiry date when stored dry and tightly closed at +2 °C to +8 °C.

Quality Control

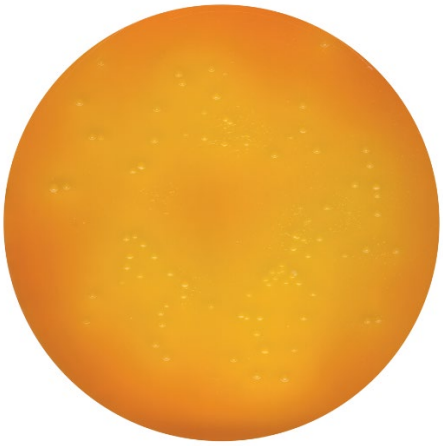
Bacillus cereus Selective Supplement is tested in GranuCult™ MYP (Mannitol Egg Yolk Polymyxin) Agar (Base) acc. ISO 7932, ISO 21871 and FDA-BAM (article number 1.05267.0500).

Function	Control strains	Incubation	Reference medium	Method of control	Expected results
Productivity	*Bacillus cereus* ATCC® 11778	21-27 to 40-48 h at 29-31 °C	Tryptic Soy Agar (TSA)	Quantitative	Recovery ≥ 50 %, pink colonies with precipitation halo
Selectivity	*Escherichia coli* ATCC® 8739 *Escherichia coli* ATCC® 25922	40-48 h at 29-31 °C	-	Qualitative	Total inhibition

Function	Control strains	Incubation	Reference medium	Method of control	Expected results
Specificity	Bacillus *subtilis* ATCC® 6633	40-48 h at 29-31 °C	-	Qualitative	Yellow colonies without precipitation halo

Please refer to the actual batch related Certificate of Analysis. A recovery rate of 50% is equivalent to a productivity of 0.5.

Bacillus cereus ATCC® 11778



Staphylococcus aureus ATCC® 6538

Literature

APHA (2015): Compendium of Methods for the Microbiological Examination of Foods. 5th ed. American Public Health Association, Washington, D.C.

FDA-BAM (2013) Chapter No. 14: Bacillus cereus. U.S. Food and Drug Administration - Bacteriological Analytical Manual

ISO International Standardisation Organisation. Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of presumptive Bacillus cereus - Colony-count technique at 30 °C. EN ISO 7932:2004.

ISO International Standardisation Organisation. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media. EN ISO 11133:2014.

ISO International Standardisation Organisation. Microbiology of food and animal feeding stuffs - Horizontal method for the determination of low numbers of presumptive Bacillus cereus - Most probable number technique and detection method. EN ISO 21871:2006.

Ordering Information

Product	Cat. No.	Pack size
Bacillus Cereus Selective Supplement	1.09875.0010	10 x 1 vial
GranuCult™ MYP (Mannitol Egg Yolk Polymyxin) Agar (Base) acc. ISO 7932, ISO 21871 and FDA-BAM	1.05267.0500	500 g
Egg Yolk Emulsion sterile, 50%, for microbiology	1.03784.0001	10 x 100 ml

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