Reference: 6021

Technical Data Sheet Product: BACILLUS CEREUS SUPPLEMENT ISO

Specification

% Condalab

Sterile selective supplement used for Bacillus cereus isolation and enumeration in food samples.

10 Freeze-dried vials Vial with: 3 ± 0.1 g	Packaging Details 22±0.25 x 55±0.5 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	Shelf Life 49 months	Storage 2-25 ºC
Composition			
Composition (IU/vial)			

NOTE : Each vial is sufficient to

supplement 500 ml of Bacillus cereus agar base.

Excipient (sufficient amount)

Reconstitute the original freeze-dried vial by adding

Description / Technique

Description:

This supplement is recomended for Bacillus Cereus Selective Agar, following PEMBA formulation and/or MYP one. These media permit an easily and readly detectation of a small number of Bacillus Cereus in a presence of a large number of food contaminants : Bacillus cereus grows in very typical colonies and it allows a rapid macroscopic identification. PEMBA= blue colonies, surrounded by a clear zone of egg yolk

MYP= brilliant pink opaque colonies, with clear lecithinase halo

Technique:

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Reconstitute the vial with the sterile diluent in aseptic conditions and add it to 450 ml of melted Agar base cooled to 50°C, previously supplemented also with 50 ml of sterile Egg Emulsion. Do not overheat once suplemented.

Pour the complete medium into Petri dishes and, once solidified on a flat surface, spread the plates either by streaking or by spiral method.

Incubate the plates in aerobic atmosphere at 30 ± 1°C for 24-48h.

Incubation times longer than those mentioned above or different incubation temperatures may be requied depending on the sample or the specifications.

After incubation, count all the colonies that have appeared onto the surface of the agar.

Presumptive isolation of Bacillus cereus must be confirmed by further microbiological and biochemical tests.

Quality control

Physical/Chemical control

Color : White-Grav pH: at 25°C

Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely Distribute the complete medium, cooled at 50°C, in plates

Inoculate: Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity)/ 10⁴-10⁶ (Selectivity).

Aerobiosis. Incubation at 35°C ± 2 °C, reading at 24-48 hours

Microorganism

Bacillus cereus ATCC[®] 11778, WDCM 00001 Escherichia coli ATCC[®] 25922, WDCM 00013

Sterility Control

Add 5 ml of the sample to: 100 ml TSB and 100 ml Thioalycollate. Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

Growth Good Inhibited

Condalab Product: BAC

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Bibliography

· ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press. London.

· CORRY, J.E.L., G.D.W. CURTIS & R.M. BAIRD. (2003) Handbook of Culture Media for Food Microbiology. Elsevier Sci. B.V. Amsterdam. The Netherlands.

• DOWNES, F.P. & K. ITO (2001) Compendium of methods for the microbiological examination of foods. 4th ed. APHA. Washington DC. USA.

• FIL-IDF 181:1998 Provisional Int. Standard. Dried Milk Products. Enumeration of *Bacillus cereus*.- Most probable number technique.

· ISO 7932 Standard (2004) 3rd ed. Microbiology of food and animal feeding stuffs. Horizontal method for the enumeration of presumptive *Bacillus cereus*. Colony count technique at 30°C.

. ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

· ISO 21871 Standard (2006) 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.

· MOSSEL, D.A.A., KOOPMAN. M.J. & JONGERIUS, E. (1967) Enumeration of *Bacillus cereus* in foods. Appl. Microbiol. 15:650-653.

· PASCUAL ANDERSON, Mª.Rª (1992) Microbiología Alimentaria. Díaz de Santos, S.A. Madrid.