

Polymixin B Selective Supplement

Intended Use

An antibiotic supplement recommended for the selective isolation of *Bacillus cereus*.

Summary

Polymixin B Selective Supplement is used with Bacillus Cereus Agar Base for selective isolation and enumeration of *B. cereus*.

Principle

Polymyxin B Selective Supplement is used for selective isolation of *B. cereus*, it contains Polymyxin B Sulphate which inhibit effectively many bacteria other than *B. cereus*.

Reagents / Contents

Polymixin B Selective Supplement (per vial, Sufficient for 475 mL medium):

Polymixin B Sulphate 50000 units

Storage and Stability

1. Store the Microxpress® Polymixin B Selective Supplement kit at 2°C-8°C, away from light.
2. Stability of the Microxpress® Polymixin B Selective Supplement kit is as per the expiry date mentioned on the label.

Directions

1. Rehydrate the content of 1 vial aseptically with 2 mL sterile distilled water.
2. Mix well and aseptically add to 475 mL sterile, molten Bacillus Cereus Agar Base (20.50 g/475 mL) along with 25 mL sterile Egg Yolk Emulsion.
3. Mix well and dispense as desired.

Interpretation of results

1. Typical colonies of *B. cereus* are crenated, about 5mm in diameter with a distinctive turquoise to peacock blue colour surrounded by a good egg yolk precipitate of the same colour.
2. The spores stain pale green to mid green, are paracentral or central in position and do not swell the sporangium.
3. Lipid globules and the vegetative cytoplasm are both red.
4. Only *B. cereus* are capable of possessing lipid globules in their vegetative cells when grown on selective medium and the presence of lipid globules is recommended as a rapid and confirmatory test for *B. cereus*.

Quality Control

Cultural characteristics observed after an incubation of 24 - 48 hours at 35°C-37°C when used in Bacillus cereus agar base along with Egg yolk Emulsion.

Organisms (ATCC)	Growth	Colour of colony	Egg yolk reaction
<i>Bacillus cereus</i> (11778)	Good	Blue	Precipitation
<i>Bacillus spizizenii</i> (6633)	Partial Inhibition	Straw coloured	-
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (25923)	Good	Yellow	Clearing
<i>Escherichia coli</i> (25922)	Inhibited	-	-

Remarks

1. Do not use cracked or broken vials.
2. Good laboratory practices and hazard precautions must be observed at all times.

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

References

1. Mossel, D.A.A., Koopman J. and Jongerius E., 1967, J.Appl. Microbiol.,15 (3):650.
2. Data on file: Microxpress®, A division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
204160710005	Media Selective Supplement	5 Vials

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
