

## 7997 Polymyxin B Supplement

### Intended Use

Polymyxin B Supplement is used with culture media as a supplement for the selective enrichment of *Bacillus* spp. in a laboratory setting. Polymyxin B Supplement is not intended for use in the diagnosis of disease or other conditions in humans.

### Principles of the Procedure

Polymyxin B Supplement is a lyophilized supplement which is reconstituted into a solution and is added to various media used to identify species of *Bacillus* spp. based on these species' resistance to Polymyxin B and lecithinase activity.

For use in:

**7741 MYP Agar Base:** This medium differentiates *B. cereus* from other bacteria based on resistance to Polymyxin B, lack of mannitol fermentation, and presence of lecithinase. After preparation and sterilization of the base medium, aseptically add 50ml of Egg Yolk Emulsion and 10ml of a sterile 50,000 IU solution of Polymyxin B (7997) to 900ml of the MYP base medium.

**7442 Bacillus Cereus Agar Base:** This medium differentiates *B. cereus* from other bacteria based on resistance to Polymyxin B, lack of mannitol fermentation, and presence of lecithinase. After preparation and sterilization of the base medium, aseptically add 50ml of Egg Yolk Emulsion and 10ml of a sterile 50,000 IU solution of Polymyxin B (7997) to 950ml of the Bacillus Cereus Agar base medium.

### Formula (per vial)

Polymyxin B.....50,000 IU

### **Precaution**

1. For laboratory use only.

### Directions

#### **MYP Agar Base**

1. Suspend 23 g of the medium in 450 mL of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121°C for 15 minutes.
4. Cool to 45 - 50°C
5. Aseptically supplement with 50 mL Egg Yolk Emulsion (7982) and 5 mL of a 50,000 IU Polymyxin B solution (7997).

#### **Bacillus Cereus Agar Base**

1. Suspend 41 g of the medium in 950 mL of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121°C for 15 minutes.
4. Cool to 45 - 50°C.
5. Aseptically add 50 mL of Egg Yolk Emulsion (# 7982) and 10 mL of Polymyxin B (# 7997, 2 x 5mL vials).

### Quality Control Specifications

**Lyophilized Appearance:** Homogenous white to off-white dried 'cake', crystalline; may break up with agitation.

**Reconstituted Appearance:** Brilliant to clear colorless to light straw yellow solution without a precipitate.



**Reconstitution Procedure**

Reconstitute the vial by aseptically adding 5.0 ml sterile purified water and mix thoroughly.

**Storage**

Store sealed bottle containing the product at 2 - 8°C.

**Expiration**

Refer to expiration date on the label. Expiry applies to the lyophilized supplement in its intact container when stored as directed.

**Limitations of the Procedure**

Discard if lyophilized supplement demonstrates any moisture uptake or appears to have liquefied; discard if reconstituted supplement demonstrates any precipitate.

**Packaging**

**Polymyxin B Supplement**

**Code No.                      7997 10 x 5ml**

**Technical Information**

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)372-2006.