



## Product Data Sheet

### **MacCONKEY BROTH PURPLE W/ BCP**

**Product No.** GB-DCM-00394-1A

### **INTENDED USE**

For presumptive identification of coliforms from water.

### **PRODUCT SUMMARY**

MacConkey Broth Purple w/ BCP is a modification of MacConkey Medium. MacConkey Broth Purple w/ BCP is recommended by ISO committee with the inclusion of bile salts, as a presumptive test medium for identification of coliforms from water and other materials of sanitary importance. Lactose fermenting organisms turn the medium yellow due to the acidity produced on lactose fermentation. The colour change of the dye is observed when the pH of the medium falls below 6.8. Lactose non-fermenting organisms like Salmonella and Shigella do not alter the appearance of the medium.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Peptic digest of animal tissue	20.000
Lactose	10.000
Bile salts	5.000
Sodium chloride	5.000
Bromocresol purple	0.010

### **PRINCIPLE**

The medium contains Peptic digest of animal tissue which provides the nitrogenous and other essential growth compounds. Lactose is the source of fermentable carbohydrate. Sodium chloride maintains the osmotic balance of the medium. Bromocresol purple is less inhibitory, and it is more suitable pH indicator which changes colour from purple to yellow. It provides a more sensitive and definite indication of acid formation. Bile salts which inhibits the growth of grampositive microorganisms.

### **STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Acid production	Gas production	Incubation Temperature	Incubation Period
Klebsiella aerogenes	13048	50-100	Luxuriant	Positive reaction (Yellow colour)	Positive reaction	30-35°C	18-48 Hours
Escherichia coli	25922	50-100	luxuriant	Positive reaction (Yellow colour)	Positive reaction	30-35°C	18-48 Hours
Enterobacter aerogenes	13048	50-100	luxuriant	Positive reaction (Yellow colour)	Positive reaction	30-35°C	18-48 Hours
Staphylococcus aureus subsp. aureus	25923	≥1000	Inhibited	-	-	30-35°C	18-48 Hours

#### INSTRUCTION FOR USE

- Dissolve 40.01 grams in 1000ml distilled water.
- Gently heat to boiling with swirling to dissolve the medium completely.
- Dispense into test tubes with Durham's tube.
- Sterilize by autoclaving at 15 psi (121oC) for 15 minutes.
- Cool the tubes before inoculation.

#### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow, homogeneous free flowing powder.

Appearance of prepared medium Purple coloured, Clear to slightly opalescent solution.

pH (at 25°C) : 7.4± 0.2

#### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**This product is for research use only.**