# Product Data Sheet

**MacCONKEY BROTH W/ BCP (DOUBLE STRENGTH)**
**Product No.** GB-DCM-00393-1A

## INTENDED USE
For presumptive identification of coliforms from large samples.

## PRODUCT SUMMARY
MacConkey Broth Purple (Double Strength) w/ BCP is a modification of MacConkey Medium. Childs and Allen demonstrated the inhibitory effect of neutral red and therefore substituted it by the less inhibitory bromocresol purple dye. BCP is more sensitive in recording pH variation in the medium. Liquid specimens are directly inoculated while solids have to be homogenized in appropriate diluents such as physiological saline, phosphate buffers, etc. The inoculation must be effected at 10% v/v in Durhams tubes. If the inoculum is greater than 1 ml, it is necessary to use the medium at double strength, inoculating equal volumes of specimen and medium.

## Product Specifications

| Ingredients | Gms / Ltr |
|---|---|
| Peptic digest of animal tissue | 40.000 |
| Lactose | 20.000 |
| Bile salts | 10.000 |
| Sodium chloride | 10.000 |
| Bromocresol purple | 0.020 |

## PRINCIPLE
Peptic digest of animal tissue provides essential growth nutrients. Lactose is the fermentable carbohydrate. Sodium taurocholate inhibits gram-positive organisms. Sodium chloride maintains the osmotic balance of the medium. Bromocresol purple is the pH indicator in the medium which turns yellow under acidic condition. Lactose fermention 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.

## 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.

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| Microorganism | ATCC | Inoculum (CFU/ml) | Growth | Acid | Gas | Incubation Temperature | Incubation Period |
|---|---|---|---|---|---|---|---|
| Klebsiella aerogenes | 13048 | 50-100 | Good-Luxuriant | Positive reaction, yellow colour | Positive reaction | 35-37°C | 18-24 Hours |
| Escherichia coli | 25922 | 50-100 | Good-luxuriant | Positive reaction, yellow colour | Positive reaction | 35-37°C | 18-24 Hours |
| Salmonella Cholerasuis | 12011 | 50-100 | Fair to good | Negative reaction, no colour change | Negative reaction | 35-37°C | 18-24 Hours |
| Salmonella Typhimurium | 14028 | 50-100 | Fair to good | Negative reaction, no colour change | Negative reaction | 35-37°C | 18-24 Hours |
| Staphylococcus aureus subsp. aureus | 25923 | >=$10^3$ | Inhibited | - | - | 35-37°C | 18-24 Hours |

**INSTRUCTION FOR USE**

- Dissolve 80.02 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense in tubes with inverted Durham tubes and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

**UALITY CONTROL SPECIFICATIONS**

Appearance of Powder : Light yellow to beige homogeneous free flowing powder.
Appearance of prepared medium Purple clear solution without any precipitate or scum
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.**

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