



## Product Data Sheet

### **FLUID LACTOSE MEDIUM (LACTOSE BROTH) (as per IP)**

**Product No.** GB-DCM-00312-1A

### **INTENDED USE**

For detection of coliform bacteria in water and food products.

### **PRODUCT SUMMARY**

Fluid Lactose Medium is recommended by APHA in the performance and confirmation of the presumptive test for coliform bacteria in water, food, milk and is recommended by IP. This medium can be used as an alternate to Lauryl Sulphate Broth in the presumptive test of the MPN of standard coliforms. This medium is also used for pre-enrichment of Salmonella for its detection in pharmaceutical raw materials.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Pancreatic digest of gelatin	5.000
Beef extract	3.000
Lactose monohydrate	5.000

### **PRINCIPLE**

The medium consists of Pancreatic digest of gelatin and beef extract which supply essential nutrients to the organisms. Lactose monohydrate is a fermentable carbohydrate for the coliforms. Tubes of Fluid Lactose Medium are inoculated with dilutions of water or milk, etc. under test, and incubated at 35°C and examined for gas formation after 24 and 48 hours.

### **INSTRUCTION FOR USE**

- Dissolve 13.0 grams in 1000 ml purified / distilled water.
- Heat if necessary to dissolve the medium completely. For larger inocula (10 ml or more), concentrated medium may be prepared to account for medium dilution by the inoculum.
- Dispense in tubes containing inverted fermentation vial (Durham's tube) as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.



### QUALITY CONTROL SPECIFICATIONS

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

Appearance of prepared : Light amber coloured, clear solution.

pH (at 25°C) : 6.9± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Gas	Incubation Temperature	Incubation Period
Klebsiella aerogenes	13048	50-100	Luxuriant	Positive reaction	35-37°C	18-48 Hours
Escherichia coli	8739	50-100	Luxuriant	Positive reaction	35-37°C	18-48 Hours
Enterococcus faecalis	29212	50-100	Luxuriant	Negative reaction	35-37°C	18-48 Hours
Pseudomonas aeruginosa	9027	50-100	Luxuriant	Negative reaction	35-37°C	18-48 Hours

### 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.

### DISPOSAL

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

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