**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

| **B950** | **BROMOCRESOL PURPLE BROTH WITH LACTOSE** |
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| **Formula** | |
| **Ingredients:** | **gms/lit.** |
| Peptic digest of animal tissue | 10.00 |
| Meat extract | 3.00 |
| Sodium chloride | 5.00 |
| Lactose | 10.00 |
| Bromo cresol purple | 0.02 |
| Final pH (at 25°C): 7.2 ± 0.2 | |
| **Directions:** | |
| Suspend 28.02 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense in tubes containing Durham's tubes and sterilize by autoclaving at 115°C for 20 minutes. | |
| **Principle :** | |
| The medium contains peptic digest of animal tissue and meat extract, which supplies the essential nutrients for E. coli and other coliforms. Sodium chloride maintains the osmotic equilibrium of the medium. Lactose upon fermentation by coliforms produce acid and is indicated by the pH indicator bromo cresol purple. It turns yellow at acidic pH. | |

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| **QC Tests – (I)Dehydrated Medium** | | |
| | Colour : | Cream to yellow |
| | Appearance: | Homogeneous Free Flowing powder |
| **(II)Rehydrated medium** | | |
| | pH (post autoclaving/heating) : | 7.2 ± 0.2 |
| | Colour (post autoclaving/heating) : | Purple |
| | Clarity (post autoclaving/heating) : | Clear |
| **(III)Q.C. Test Microbiological** | | |
| | Cultural characteristics observed after 18-24 hrs at 35- 37°C. | |

| | MICROORGANISM (ATCC) | GROWTH | ACID | GAS |
|---|---|---|---|---|
| | Escherichia coli (25922) | Good – luxuriant | Positive reaction, yellow colour | Positive reaction |
| | Klebsiella pneumoniae (13883) | Good – luxuriant | Positive reaction, yellow colour | Positive reaction |
| | Salmonella typhimurium (14028) | Good – luxuriant | Negative reaction, no colour change | Negative reaction |
| | Enterococcus faecalis (29212) | Fair – good | Variable reaction | Negative reaction |

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| **Precautions :** | 1. For Laboratory Use. |
| | 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. |
| **Limitations :** | 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. |
| **Use :** | For identification of Escherichia coli and coliform bacteria from water. |
| **Storage :** | Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C. |
| **Packing :** | 500 gm. bottle |

| **Product profile:** | Reconstitution | Quantity on Preparation (500g) | pH (25°C) | Supplement | Sterilization |
|---|---|---|---|---|---|
| **B950** | 28.02 g/l | 17.844 L | 7.2 ± 0.2 | NIL | $115^0$C / 20 minutes |