

**TECHNICAL SHEET**

|  |                                   |  |                              |                          |                         |
|--|-----------------------------------|--|------------------------------|--------------------------|-------------------------|
| <b>BB002</b>   | <b>Cetrimide - MacConkey Agar</b> |  |                              |                          |                         |
| <b>Formula: Cetrimide Agar</b>   |                                   | <b>MacConkey Agar</b>  |                              |                          |                         |
| <b>Ingredients:</b>  | <b>gms/lit</b>                    |  | <b>gms/lit</b>               |                          |                         |
| Pancreatic Digest of Gelatin   | 20.00                             | Peptone  | 1.50                         |                          |                         |
| Magnesium Chloride   | 1.40                              | Tryptone   | 1.50                         |                          |                         |
| Potassium Sulphate   | 10.00                             | Gelatin peptone  | 17.00                        |                          |                         |
| Cetrimide  | 0.30                              | Lactose  | 10.00                        |                          |                         |
| Agar   | 15.0                              | Bile Salts   | 1.50                         |                          |                         |
|  |                                   | Sodium chloride  | 5.00                         |                          |                         |
|  |                                   | Crystal violet   | 0.001                        |                          |                         |
|  |                                   | Neutral red  | 0.03                         |                          |                         |
|  |                                   | Agar   | 15.00                        |                          |                         |
| Final pH (at 25°C): :7.2 ± 0.2   |                                   | 7.1±0.2  |                              |                          |                         |
| <b>Directions:</b>   |                                   |  |                              |                          |                         |
| 1.Label the ready to use plate (BB002). streak the test inoculum (50-100 CFU) aseptically on the plate.  |                                   |  |                              |                          |                         |
| 2.Refer Technical Data of Cetrimide Agar (B975) & MacConkey agar w/0.15% Bile Salts, CV and NaCl (B238).   |                                   |  |                              |                          |                         |
| <b>Principle:</b>  |                                   |  |                              |                          |                         |
| Biplates has unique combination of two media.<br><b>Cetrimide Agar</b> is used as a selective medium for the isolation of Pseudomonas aeruginosa from pharmaceutical products. This medium is used for determining the ability of an organism to produce fluorescein and pyocyanin. Cetrimide (N-acetyl N, N, N-trimethylammonium bromide) is incorporated in the medium to inhibit bacteria other than Pseudomonas aeruginosa. Colonies of Pseudomonas aeruginosa may appear pigmented greenish (under UV light also).<br><b>MacConkey Agar</b> is a differential medium for the selection and recovery of the Enterobacteriaceae and related enteric gram-negative bacilli. This medium is prepared with crystal violet, NaCl and Bile salts. It is very selective and suppresses growth of a number of Gram-positive bacteria including staphylococci. Coliforms and Enterobacter give pink to red colonies on this medium and Escherichia coli gives pink to red colonies with bile precipitate. |                                   |  |                              |                          |                         |
| <b>(I) QC Tests</b>  |                                   |  |                              |                          |                         |
|  | pH:                               | Cetrimide Agar: 7.2 ± 0.2<br>MacConkey Agar: 7.1±0.2   |                              |                          |                         |
|  | Color:                            | Light amber coloured medium of Cetrimide Agar and Red coloured medium with purplish tinge of MacConkey Agar. |                              |                          |                         |
|  | Appearance:                       | Sterile Cetrimide Agar and MacConkey Agar in 85mm disposable Biplates.                                       |                              |                          |                         |
| <b>(II) Sterility test</b>   |                                   | Passes release criteria  |                              |                          |                         |
| <b>(III) Q.C. Test Microbiological</b>   |                                   |  |                              |                          |                         |
| Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.   |                                   |  |                              |                          |                         |
|  | MICROORGANISM (ATCC)              | GROWTH ON MACCONKEY AGAR   | COLOR ON MAC AGAR            | GROWTH ON CETRIMIDE AGAR | COLOR ON CETRIMIDE AGAR |
|  | Escherichia coli 25922            | Luxuriant  | Pink-red w/ bile precipitate | -                        | -                       |
|  | Staphylococcus aureus 25923       | Inhibited  | Colorless                    | Inhibited                | -                       |

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|                                    |           |                |           |                      |
|------------------------------------|-----------|----------------|-----------|----------------------|
| S. serotype enteritidis 13076      | Luxuriant | Colorless      | -         | -                    |
| S. serotype paratyphi A 9150       | Luxuriant | Colorless      | -         | -                    |
| Enterobacter aerogenes 13048       | Luxuriant | Pink-red       | -         | -                    |
| Proteus vulgaris 13315             | Luxuriant | Colorless      | -         | -                    |
| S. serotype paratyphi B 8759       | Luxuriant | Colorless      | -         | -                    |
| Enterococcus faecalis 29212        | None-poor | Colorless-pink | -         | -                    |
| Shigella flexneri 12022            | Fair-good | Colorless      | -         | -                    |
| Pseudomonas aeruginosa 27853       | -         | -              | Luxuriant | Yellow green to blue |
| S. serotype typhi 6539             | Luxuriant | Colorless      | -         | -                    |
| Stenotrophomonas maltophilia 13637 | -         | -              | Inhibited | -                    |

Refer disclaimer Overleaf

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|----------------------|--|
| <b>Precautions :</b> | 1. In Vitro diagnostic use only.   |
|                      | 2. Read the label before opening the container   |
| <b>Limitations :</b> | 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.  |
| <b>Use:</b>          | Combination of Cetrimide Agar + MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl recommended for selective isolation and enumeration of Pseudomonas species and differentiation of other enteric pathogens. |
| <b>Storage:</b>      | Store between 2-8°C. Use before expiry date on the label.  |
| <b>Packing:</b>      | 20/50 disposable biplates.   |

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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