

| | | | | | |
|---|-----------------------|---|----------------------------------|--------------------------------|--|
| B878 | M-EC TEST AGAR | | | | |
| Formula | | | | | |
| Ingredients : | | | gms/lit. | | |
| Proteose peptone | | | 5.00 | | |
| Yeast extract | | | 3.00 | | |
| Lactose | | | 10.00 | | |
| Sodium chloride | | | 7.50 | | |
| Dipotassium phosphate | | | 3.30 | | |
| Monopotassium phosphate | | | 1.00 | | |
| Sodium lauryl sulphate | | | 0.20 | | |
| Sodium deoxycholate | | | 0.10 | | |
| Bromocresol purple | | | 0.08 | | |
| Bromphenol red | | | 0.08 | | |
| Agar | | | 15.00 | | |
| Final pH (at 25°C) : | | | 7.3 ± 0.2 | | |
| Directions : | | | | | |
| Suspend 45.26 grams in 1000 ml distilled water. Heat to boiling with frequent agitation to dissolve the medium completely. DO NOT AUTOCLAVE OR OVERHEAT. Cool to about 50°C. Mix and pour into sterile Petri plates. | | | | | |
| Principle : | | | | | |
| Proteose peptone and yeast extract provide necessary nutrients for the growth of coliforms. Lactose is the carbon source as well as fermentable carbohydrate in the medium. Sodium deoxycholate and sodium lauryl sulphate inhibit the growth of contaminating gram-positive microorganisms. Bromocresol purple and bromphenol red are the pH indicators. | | | | | |
| QC Tests – (I) Dehydrated Medium | | | | | |
| Colour : | | | Light yellow to green | | |
| Appearance : | | | Homogeneous Free Flowing powder | | |
| (II) Rehydrated medium | | | | | |
| pH (post autoclaving/heating) : | | | 7.3 ± 0.2 | | |
| Colour (post autoclaving/heating) : | | | Purple | | |
| Clarity (post autoclaving/heating) : | | | clear to slightly opalescent gel | | |
| (III) Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after an incubation at 35-37°C for 18- 24 hours. | | | | | |
| MICROORGANISM (ATCC) | | GROWTH | | COLOUR OF COLONY | |
| Escherichia coli (25922) | | luxuriant | | Yellow | |
| Staphylococcus aureus(25923) | | inhibited | | -- | |
| Enterococcus faecalis (29212) | | inhibited | | -- | |
| 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 : | | It is used for testing Escherichia coli in water samples using membrane filter technique | | | |
| Storage : | | Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C. | | | |
| Packing : | | 500 gm. bottle | | | |
| Product profile: | | Reconstitution | | Quantity on Preparation (500g) | |
| B878 | | 45.26 g/l | | 11.047 L | |
| | | pH (25°C) | | Supplement | |
| | | 7.3 ± 0.2 | | NIL | |
| | | Sterilization | | DO NOT AUTOCLAVE. | |

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.