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| B1174 | EMB (EOSIN METHYLENE BLUE) AGAR, LEVINE | | | | | |
| Formula | | | | | | |
| Ingredients : | | gms/lit. | | | | |
| Pancreatic digest of gelatin | | 10.00 | | | | |
| Dipotassium phosphate | | 2.00 | | | | |
| Lactose | | 10.00 | | | | |
| Eosin -Y | | 0.40 | | | | |
| Methylene blue | | 0.065 | | | | |
| Agar | | 15.00 | | | | |
| Final pH (at 25°C) : | | 7.1 ± 0.2 | | | | |
| Directions : | | | | | | |
| Suspend 37.5 gms in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. AVOID OVERHEATING. Cool to 50°C and shake the medium in order to oxidize the methylene blue (i.e. restores its blue color) and to suspend the precipitate which is an essential part of the medium. Precaution: Store the medium away from light to avoid photo-oxidation. | | | | | | |
| Principle : | | | | | | |
| Pancreatic digest of gelatin is the source of nitrogen lactose is the source of carbohydrates. Eosin - Y and methylene blue make the medium slightly selective and inhibit certain gram- positive bacteria. These dyes differentiate between lactose fermenters and nonfermenters. Agar acts as the solidifying agent. | | | | | | |
| QC Tests - (I)Dehydrated Medium | | | | | | |
| Colour : | | Light pink to Light purple | | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | | |
| (II)Rehydrated medium | | | | | | |
| pH (post autoclaving/heating) : | | 7.1 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | | Reddish purple with greenish cast & finely dispersed precipitate. | | | | |
| Clarity (post autoclaving/heating) : | | Slightly opalescent gel | | | | |
| (III)Q.C. Test Microbiological | | | | | | |
| Cultural characteristics observed after 24 - 48 hrs. at 35 - 37°C. | | | | | | |
| MICROORGANISM (ATCC) | | GROWTH | | COLOUR OF COLONY | | |
| Escherichia coli (25922) | | Luxuriant | | Blue-black with metallic sheen | | |
| Pseudomonas aeruginosa (27853) | | Luxuriant | | Colourless | | |
| Salmonella typhimurium (14028) | | Luxuriant | | Colourless | | |
| *Candida albicans (10231) | | Good-luxuriant | | Colourless | | |
| Enterobacter aerogenes (13048) | | Good | | Pink-red | | |
| Staphylococcus aureus (25923) | | None - poor | | Colourless | | |
| Saccharomyces cerevisiae (9763) | | None - poor | | Cream | | |
| Streptococcus faecalis (29212) | | Inhibited | | -- | | |
| Key : * = incubations in 10% carbon-dioxide. | | | | | | |
| Precautions : | | 1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. Store the medium away from light to avoid photooxidation. | | | | |
| 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 : | | B1174 : For isolation, enumeration and differentiation of members of Enterobacteriaceae . | | | | |
| 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 |
| B1174 | | 37.5g/l | 13.33L | 7.1 ± 0.2 | Nil | 121°C / 15 minutes |

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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