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| **B1187** | | **Lactobacilli Heteroferm Screen BROTH(MRS BROTH, Modified)** | | | | | | | | | | | | | |
| **Formula** | | | | |  | | | | | | | | | |  |
| **Ingredients :** | | | | | **gms/lit.** | | | | | | | | | |  |
| Dextrose 20.00  Proteose peptone 10.00  Yeast extract 5.00  Sodium acetate 5.00  2-Phenylethyl alcohol 3.00  Ammonium citrate 2.00  Dipotassium phosphate 2.00  Magnesium sulphate0.10  Manganese sulphate0.05  Bromocresol green 0.04  Cycloheximide 0.004 | | | | | | | | | | | | | | | |
| Final pH (at 25°C) : 4.3+ 0.2 | | | | | | | | | | | | | | | |
| **Directions :** | | | | | | | | | | | | | | | |
| Suspend 47.2 grams in 1000 ml distilled water containing 1 ml polysorbate 80. Mix thoroughly and dispense in tubes containing inverted Durhams tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If necessary, adjust the pH with glacial acetic acid after sterilization. | | | | | | | | | | | | | | | |
| **Principle :** | | | | | | | | | | | | | | | |
| Proteose peptone and dextrose supply nitrogen, carbon and other elements essential for the growth of Lactobacilli. Polysorbate 80 a mixture of oleic esters, supplies fatty acids required by Lactobacilli. Ammonium citrate, sodium acetate, 2-phenylethyl alcohol and cycloheximide inhibit gram-negative organisms, molds and certain gram-positive bacteria. Certain yeasts are also suppressed because of presence of cycloheximide. Bromocresol green is the pH indicator, which under acidic conditions, changes colour from green to yellow. | | | | | | | | | | | | | | | |
| **QC Tests – (I)Dehydrated Medium** | | | | | |  | | | | | | | | | |
|  | Colour : | | | | | Light yellow to bluish grey | | | | | | | | | |
|  | Appearance : | | | | | Homogeneous Free Flowing powder | | | | | | | | | |
| **(II)Rehydrated medium** | | | | | |  | | | | | | | | | |
|  | pH (post autoclaving/heating) : | | | | | 4.3 ± 0.2 | | | | | | | | | |
|  | Colour (post autoclaving/heating) : | | | | | Green | | | | | | | | | |
|  | Clarity (post autoclaving/heating) : | | | | | Clear to slightly opalescent solution in tube | | | | | | | | | |
| **(III)Q.C. Test Microbiological** | | | | | |  | | | | | | | | | |
|  | Cultural characteristics observed in presence of 5-10% Carbon dioxide(CO2) after an incubation at 35-37°C for upto 3 days. | | | | | | | | | | | | | | |
|  | MICROORGANISM (ATCC ) | | | | | | GROWTH | |  |  | |  | |  | |
|  | Lactobacillus casei (9595) | | | | | | Luxuriant | |  |  | |  | |  | |
|  | Lactobacillus acidophilus (4356) | | | | | | Luxuriant | |  |  | |  | |  | |
|  | Lactobacillus fermentum (9338 ) | | | | | | Luxuriant | |  |  | |  | |  | |
|  | Lactobacillus plantarum (8014) | | | | | | Luxuriant | |  |  | |  | |  | |
| **Precautions :** | | | 1. For Laboratory Use. | | | | | | | | | | | | |
| 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. | | | | | | | | | | | | |
|  | | | 3.Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation. | | | | | | | | | | | | |
| **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 recommended for the isolation and cultivation of Lactobacillus species from salad dressings | | | | | | | | | | | | |
| **Storage :** | | | Dehydrated medium and prepared medium – Between 2 to 8°C. | | | | | | | | | | | | |
| **Packing :** | | | 500 gm. bottle | | | | | | | | | | | | |
| **Product profile:** | | | Reconstitution | Quantity on  Preparation (500g) | | | | pH (25°C) | | | Supplement | | Sterilization | | |
| **B1187** | | | 47.2 g/l | 10.593lit | | | | 4.3 ± 0.2 | | | polysorbate 80 | | 1210C/15 min | | |