

TECHNICAL SHEET

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|---|--------------------------------|--|--------------------------------|------------------------------|------------|--------------------|
| B1494 | M-LAURYL SULPHATE BROTH | | | | | |
| Formula | | | | | | |
| Ingredients : | | gms/lit. | | | | |
| Peptic digest of animal tissue | | 40.00 | | | | |
| Yeast extract | | 6.00 | | | | |
| Lactose | | 30.00 | | | | |
| Sodium lauryl sulphate | | 1.00 | | | | |
| Phenol red | | 0.200 | | | | |
| Final pH (at 25°C) : 7.4 ± 0.2 | | | | | | |
| Directions : | | | | | | |
| Suspend 77.2 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by steaming for 30 minutes on three consecutive days or by autoclaving at 15 lbs pressure (121°C) for 15 minutes. | | | | | | |
| Principle : | | | | | | |
| Peptic digest of animal tissue and yeast extract provide nitrogen, vitamins, amino acids and minerals. Lactose is the fermentable carbohydrate for coliforms. Sodium Lauryl sulphate is the selective agent used to inhibit organisms other than coliforms. Phenol red is pH indicator. | | | | | | |
| QC Tests – (I)Dehydrated Medium | | | | | | |
| Colour : | | Light yellow to pink | | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | | |
| (II)Rehydrated medium | | | | | | |
| pH (post autoclaving/heating) : | | 7.4 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | | Red | | | | |
| Clarity (post autoclaving/heating) : | | Clear | | | | |
| (III)Q.C. Test Microbiological | | | | | | |
| Cultural characteristics observed after an incubation at 18 hours at different temperatures | | | | | | |
| MICROORGANISM (ATCC) | GROWTH AT 35-37°C | COLOUR OF COLONY ON MEMBRANE | GROWTH AT 43-45°C | COLOUR OF COLONY ON MEMBRANE | | |
| Escherichia coli (25922) | luxuriant | yellow | luxuriant | yellow | | |
| Enterobacter aerogenes (13048) | luxuriant | yellow | 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 enumeration of Escherichia coli and coliforms in water, using membrane filter technique. Recommended by International Organization for Standardization, 1990, Draft ISO/DIS: 9308-1 | | | | |
| 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 |
| B1494 | 77.2g/l | | 6.476 L | 7.4 ± 0.2 | NIL | 121°C / 15 minutes |

Disclaimer:

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