

TECHNICAL SHEET

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|---|--|----------------------------------|--------------------------------|-----------|------------|--------------------|
| B1169 | DRIGALSKY LACTOSE AGAR , MODIFIED | | | | | |
| Formula | | | | | | |
| Ingredients : | | gms/lit. | | | | |
| Peptic digest of animal tissue | | 10.00 | | | | |
| Lactose | | 10.00 | | | | |
| Meat extract B # | | 4.00 | | | | |
| Bromothymol blue | | 0.04 | | | | |
| Agar | | 16.00 | | | | |
| # Equivalent to beef extract | | | | | | |
| Final pH (at 25°C) : 7.4 ± 0.2 | | | | | | |
| Directions : | | | | | | |
| Suspend 40.04 gms in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. | | | | | | |
| Principle : | | | | | | |
| Lactose is source of carbon and fermentable carbohydrate. Peptic digest of animal tissue and Beef extract supply essential nutrients. Bromothymol blue is pH indicator. Lactose fermentors produce acid and thus change color of litmus to red forming red colonies. Lactose non-fermentors develop blue colonies on the medium. Inoculate culture from primary fermentation tubes showing gas by four-quadrant streaking on the medium or by serial dilution and pour plate technique. | | | | | | |
| QC Tests - (I)Dehydrated Medium | | | | | | |
| Colour : | | Cream to Yellow | | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | | |
| (II)Rehydrated medium | | | | | | |
| pH (post autoclaving/heating) : | | 7.4 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | | Greenish | | | | |
| Clarity (post autoclaving/heating) : | | Clear to Slightly opalescent gel | | | | |
| (III)Q.C. Test Microbiological | | | | | | |
| Cultural characteristics observed after 18-24 hours at 37°C. | | | | | | |
| MICROORGANISM (ATCC) | | GROWTH | COLOR OF COLONY | | | |
| Salmonella typhimuiriam (14028) | | Luxuriant | Bluish | | | |
| Staphyococcus aureus (25923) | | Good | Deep yellow-yellow | | | |
| Escherichia coli (25922) | | Luxuriant | Yellowish | | | |
| 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 : | | | | | | |
| As non-selective differential medium for detection of enteric pathogens. | | | | | | |
| 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 |
| B1169 | | 40.04g/l | 12.487L | 7.4 ± 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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