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|--|---|---------------------------------|-----------|-----------------------|------------------|
| B1003 | D.C.L.S. AGAR, HAJNA | | | | |
| Formula | | | | | |
| Ingredients: | | gms/lit. | | | |
| Peptic digest of animal tissue | | 5.00 | | | |
| Casein enzymic hydrolysate | | 5.00 | | | |
| Yeast extract | | 3.00 | | | |
| Meat extract B# | | 3.00 | | | |
| Sucrose | | 7.50 | | | |
| Lactose | | 7.50 | | | |
| Sodium citrate | | 10.00 | | | |
| Sodium thiosulphate | | 5.00 | | | |
| Sodium chloride | | 5.00 | | | |
| Sodium deoxycholate | | 2.50 | | | |
| Bromo cresol purple | | 0.02 | | | |
| Agar | | 20.00 | | | |
| # Equivalent to beef extract | | | | | |
| Final pH (at 25°C): 7.2 ± 0.2 | | | | | |
| Directions: | | | | | |
| Suspend 73.52 gms.in 1000 ml distilled water. Boil to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 50°C and pour into sterile petri plates. | | | | | |
| Principle: | | | | | |
| The medium contains beef extract, casein enzymic hydrolysate, peptic digest of animal tissue and yeast extract which provide essential nitrogenous and other nutrients for the growth of the organisms. Sucrose and lactose are the fermentable carbohydrates. These two sugars in the medium permit the formation of yellow colonies by the organisms that rapidly ferment either sucrose or lactose or both, e.g. Proteus vulgaris and typical coliforms. This facilitates better selection of members of the genera Shigella and Salmonella which form nearly colourless colonies. The citrate and deoxycholate in the medium suppresses the growth of coliforms and gram – positive organisms respectively. Bromo cresol purple is the pH indicator. | | | | | |
| QC Tests - (I) Dehydrated Medium | | | | | |
| Colour: | | Tan | | | |
| Appearance: | | Homogeneous Free Flowing powder | | | |
| (II) Rehydrated medium | | | | | |
| pH (post autoclaving/heating): | | 7.2 ± 0.2 | | | |
| Colour (post autoclaving/heating): | | Bluish | | | |
| Clarity (post autoclaving/heating): | | Slight precipitate | | | |
| (III) Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after 18-48 hrs. at 35-37°C. | | | | | |
| MICROORGANISM (ATCC) | | GROWTH | | COLOUR OF COLONY | |
| Escherichia coli (25922) | | Luxuriant | | Yellow with bile ppt. | |
| Salmonella typhimurium (14028) | | Luxuriant | | Colourless | |
| Shigella flexneri (12022) | | Luxuriant | | Colourless | |
| Proteus mirabilis (25933) | | Luxuriant | | Colourless | |
| Staphylococcus aureus (25923) | | 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: | For the isolation of gram-negative enteric bacilli. | | | | |
| 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 |
| B1003 | 73.52g/l | 6.80L | 7.2 ± 0.2 | NIL | 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 BIOMARK LABORATORIES publications.

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