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| B237 Mac Conkey Agar w/o CV, NaCl w/ 0.5% Bile Salts | | | | | | | | |
|---|----------|---------------------------------|---|--|--|--|--|--|
| Formula | | · · · | | | | | | |
| Ingredients : | | gms/lit. | | | | | | |
| Peptic digest of animal tissue | | 20.00 | | | | | | |
| Lactose | 10.0 | 10.00 | | | | | | |
| Bile Salts | 5.00 | D | | | | | | |
| Neutral red | 0.07 | 75 | | | | | | |
| Agar | 12.0 | 00 | | | | | | |
| | | | | | | | | |
| Final pH (at 25°C) : 7.4 <u>+</u> 0.2 Directions : | | | | | | | | |
| | 1000 - | | ater. Heat to boiling with gentle swirling to | | | | | |
| dissolve the agar completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Avoid overheating. Cool to 45 - 50°C and pour into sterile Petri plates. The surface of the medium should be dry when inoculated. Note: For the cultivation of vibrio species, add 5 grams per litre of sodium chloride before sterilization. | | | | | | | | |
| Principle: Peptic digest of animal tissue is sources of nitrogen and other nutrients. Lactose is a fermentable carbohydrate. When lactose is fermented, a local pH drop around the colony causes a colour change in the pH indicator (neutral red). Bile salts is selective agents that inhibit growth of gram –positive organisms. Agar is a solidifying agent. | | | | | | | | |
| QC Tests – (I)Dehydrated Medium | <u> </u> | | | | | | | |
| Colour : | | Pinkish beige | | | | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | | | | |
| (II)Rehydrated medium | | | | | | | | |
| pH (post autoclaving/heating) | : | 7.4 ± 0.2 | | | | | | |
| Colour (post autoclaving/heating) | | Orange red | | | | | | |
| Clarity (post autoclaving/heating) | : | Clear to slightly opalescent | | | | | | |
| (III) Q.C. Test Microbiological | | | | | | | | |
| Cultural characteristics observed a | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | COLOUR OF COLONY | | | | | | |
| 5 () | | xuriant | Pink to red | | | | | |
| · · · · · | | xuriant | Pink to red with bile precipitate | | | | | |
| Proteus vulgaris (13315) | Lu | xuriant | Colourless | | | | | |
| | | xuriant | Colourless | | | | | |
| Salmonella typhi (6539) | Lu | xuriant | Colourless | | | | | |
| Salmonella paratyphi A | Lu | xuriant | Colourless | | | | | |
| Salmonella paratyphi B | | xuriant | Colourless | | | | | |
| | | ir to good | Colourless | | | | | |
| ````````````````````````````````` | | ir to good | Pale pink to red | | | | | |
| Staphylococcus aureus (25923) Fair to good Pale pink to red | | | | | | | | |
| Precautions : 1. For Laboratory Use. | | | | | | | | |
| 2. Follow proper, established laboratory procedures in handling and disposing of | | | | | | | | |
| infectious materials. | | | | | | | | |

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| Limitations : | 1. Since the nutritional requirements of organisms vary, some strains may encountered that fail to grow or grow poorly on this medium. | | | | | | | |
|------------------|---|--------------------------------------|------------------|------------|----------------|--|--|--|
| | 2. Although MacConkey media are selective primarily for gram – negative enteric bacilli, | | | | | | | |
| | biochemical and, if indicated, serological testing using pure cultures are recommended | | | | | | | |
| | for complete identification. Consult appropriate references for further information. | | | | | | | |
| | 3. Incubation of MacConkey Agar plates under increased CO_2 has been reported to reduce the growth and recovery of a number of strains of gram – negative bacilli. | | | | | | | |
| Use : | For cultivation and differentiation of enteric bacteria, restricting swarming of Proteus species from specimens like urine which may contain large number of Proteus species as well as potentially pathogenic gram-positive organisms. | | | | | | | |
| Storage : | Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C. | | | | | | | |
| Packing : | 500 gm. bottle | | | | | | | |
| Product profile: | | Quantity on Preparation (500g) | рН (25°С) | Supplement | Sterilization | | | |
| B237 | 47.07g/L | 10.622L | 7.4 <u>+</u> 0.2 | NIL | 121ºC /15 min. | | | |

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