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TECHNICAL SHEET

| B251 | MANNITOL SA | LT BROT | FH | | | | | |
|---|---|------------|--------------------------------------|-----------------------|------------|--------------------|---------------------|---|
| Formula | | | | | | | | |
| Ingredients: | | gms/li | gms/lit. | | | | | |
| Proteose peptone | 10.00 | 10.00 | | | | | | |
| Meat Extract B# | 1.00 | 1.00 | | | | | | |
| Sodium chloride | | 75.00 | 75.00 | | | | | |
| D-Mannitol | | 10.00 | 10.00 | | | | | |
| Phenol red 0. | | | 0.025 | | | | | |
| #- Equivalent to Beef extract | | | | | | | | |
| Final pH (at 25°C): 7.4 \pm 0.2 | | | | | | | | |
| Directions : | | | | | | | | |
| Suspend 96.02 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. | | | | | | | | |
| Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. | | | | | | | | |
| Note: This product contains 7.5% sodium chloride as one of its ingredients. On repeated exposure to air | | | | | | | | |
| and absorption moisture sodium chloride has tendency to form lumps, therefore we strongly recommend | | | | | | | | |
| storage in tightly closed containers in dry place away from bright light. | | | | | | | | |
| Principle : | | | | | | | | |
| The medium contains Meat Extract and proteose peptone which makes it very nutritious as they provide | | | | | | | | |
| essential growth factors and trace nutrients. Many other bacteria except Staphylococci are inhibited by | | | | | | | | |
| 7.5% sodium chloride. Mannitol is the fermentable carbohydrate source. The differential action of the | | | | | | | | |
| medium is attributed to D-Mannitol Staphylococcus aureus ferments mannitol to produce yellow coloured | | | | | | | | |
| medium. Most coagulase-negative species of Staphylococci and Micrococci do not ferment mannitol and | | | | | | | | |
| therefore the medium remains red in colour. The colour of the medium is due to the reactivity of phenol | | | | | | | | |
| red to the pH of the medium; phenol red is red at pH 8.4 and yellow at 6.8. Presumptive Staphylococcus | | | | | | | | |
| showing yellow co | ploured medium | should be | further test | ed for pro | oduc | tion of coagulase. | | |
| QC Tests – (I)Dehydrated Medium | | | | | | | | |
| Colour : | | | Light pink | | | | | |
| Appearance : | | | Homogeneous Free Flowing powder | | | | | |
| (II)Rehydrated medium | | | | | | | | |
| pH (post autoclaving/heating) : | | | : 7.4 ± 0.2 | | | | | |
| Colour (post autoclaving/heating) : | | | Orangish red to red | | | | | |
| Clarity (post autoclaving/heating) : | | | Red coloured clear solution in tubes | | | | | |
| (III) Q.C. Test Microbiological | | | | | | | | |
| Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours. | | | | | | | | |
| MICROORGANISM (ATCC) | | | GROWTH | OWTH COLOUR OF MEDIUM | | | | |
| Staphylococcus aureus (25923) | | | Good -Lux | uxuriant Yellow | | | | |
| Staphylococcus epidermidis (12228) | | | Fair to go | od Red | | | | |
| Escherichia co | li (25922) | | Inhibited | | | | | |
| Precautions : 1. For Laboratory Use. | | | | | | | | |
| 2. Follow proper, established laboratory procedures in handling and dispo | | | | | | | ig 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. | | | | | | | | |
| | | | | | | | | Jse : Used for the selective isolation of presumptive pathogenic Staphylococci. |
| Storage : | e: Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C. | | | | | | | |
| Packing : 500 gm. bottle | | | | | | | | |
| Product profile: | Quantitv | uantity on | | °C) | Supplement | Sterilization | | |
| | | Preparati | ion (500a) | | -, | | | |
| B251 | 96.02 a/l | 5.2 | 207 L | 7.4 ± (|).2 | Nil | 121ºC / 15 minutes | |
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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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