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| B203 | HEKTOEN ENTERIC AGAR | |
| Formula | | |
| Ingredients : | gms/lit. | |
| Proteose peptone | 12.00 | |
| Yeast extract | 3.00 | |
| Lactose | 12.00 | |
| Sucrose | 12.00 | |
| Salicin | 2.00 | |
| Bile salt mixture | 9.00 | |
| Sodium chloride | 5.00 | |
| Sodium thiosulphate | 5.00 | |
| Ferric ammonium citrate | 1.50 | |
| Acid fuchsin | 0.10 | |
| Bromo thymol blue | 0.065 | |
| Agar | 15.00 | |
| Final pH (at 25°C): 7.5 ± 0.2 | | |
| Directions: | | |
| Suspend 76.67 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C. Mix well and pour into sterile Petri plates. | | |
| Principle : | | |
| Proeose Peptone is a source of nitrogen and other nutrients in Hektoen Enteric Agar. Bile Salts and the dyes, bromo thymol blue and acid fuchsin, inhibit gram – positive organisms. Lactose, sucrose and salicin are sources of fermentable carbohydrates. Ferric ammonium citrate, a source of iron, allows production of hydrogen sulfide (H ₂ S) from sodium thiosulfate. H ₂ S – positive colonies have black centers. Yeast Extract provides vitamins and cofactors required for growth and additional nitrogen and carbon. Agar is used as a solidifying agent. | | |
| QC Tests – (I)Dehydrated Medium | | |
| Colour : | Cream to yellow with tancast | |
| Appearance : | Homogeneous Free Flowing powder | |
| (II)Rehydrated medium | | |
| pH (post autoclaving/heating) : | 7.5 ± 0.2 | |
| Colour (post autoclaving/heating) : | Green colour | |
| Clarity (post autoclaving/heating) : | Clear to slightly opalescent | |
| (III)Q.C. Test Microbiological | | |
| Cultural characteristics observed after 18- 24 hrs. at 35 -37°C. | | |
| MICROORGANISM (ATCC) | GROWTH | COLOUR OF COLONY |
| Salmonella enteritidis (13076) | Luxuriant | Greenish blue* |
| Salmonella typhimurium (14028) | Luxuriant | Greenish blue* |
| Shigella flexneri (12022) | Luxuriant | Greenish blue |
| Enterobacter aerogenes (13048) | Fair –good | Salmon – orange |
| Escherichia coli (25922) | Fair | Orange (may have bile precipitate) |
| Escherichia coli (8739) | Fair | Orange (may have bile precipitate) |
| Enterococcus faecalis (29212) | Inhibited | -- |
| Salmonella Typhi (6539) | Luxuriant | Greenish blue* |
| * may have black centres (H ₂ S production). | | |
| Precautions : | <ol style="list-style-type: none"> 1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. | |

Refer disclaimer Overleaf

TECHNICAL SHEET

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| Limitations : | 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. | | | | |
| | 2. Do not autoclave this medium because excessive heat may alter the ingredients. | | | | |
| | 3. Proteus species may resemble salmonellae or shigellae. Further testing should be conducted to confirm the presumptive identification of organisms isolated on this medium. | | | | |
| Use : | For differential and selective isolation of Salmonella and Shigella species from enteric pathological specimens | | | | |
| 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 |
| B203 | 76.67 g/l | 6.52 L | 7.5 ± 0.2 | Nil | Do not autoclave. Boil to dissolve medium |

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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