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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 : | | |
| 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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