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|---|---|--|
| <b>B1257</b>  | <b>SEMISOLID IMRV MEDIUM BASE</b>   |  |
| <b>Formula</b>  |   |  |
| <b>Ingredients :</b>  | <b>gms/lit.</b>   |  |
| Casein enzymic hydrolysate  | 13.50   |  |
| Peptic digest of animal tissue  | 13.50   |  |
| Saccharose  | 7.50  |  |
| Lactose   | 0.50  |  |
| Ammonium ferric sulphate  | 0.20  |  |
| Sodium thiosulphate   | 0.80  |  |
| Potassium dihydrogen phosphate  | 1.47  |  |
| Magnesium chloride, anhydrous   | 10.91   |  |
| Malachite green   | 0.037   |  |
| Bromo cresol purple   | 0.08  |  |
| Agar  | 2.70  |  |
| Final pH (at 25°C) : 5.5 ± 0.2  |   |  |
| <b>Directions :</b>   |   |  |
| Suspend 51.2 grams in 1000 ml distilled water. Heat with stirring to boiling to dissolve the medium completely. DO NOT AUTOCLAVE / DO NOT OVERHEAT. Cool to 45°C and aseptically add rehydrated contents of 1 vial of IMRV/RV Selective Supplement (BF137). Mix well and pour into sterile Petri plates   |   |  |
| <b>Principle :</b>  |   |  |
| Casein enzymic hydrolysate and peptic digest of animal tissue, provide the nitrogenous and carbonaceous substances and other essential growth nutrients. Phosphate gives good buffering capacity to the medium. Addition of novobiocin as a supplement (BF137) and malachite green in the medium selectively inhibits most gram-positive organisms. Sodium chloride maintains the osmotic equilibrium of the media. All these factors make the medium selective for the isolation of Salmonella. This medium enriches Salmonella and the semi-solid nature of the medium helps to differentiate the motile Salmonella from non-motile ones. |   |  |
| <b>QC Tests - (I) Dehydrated Medium</b>   |   |  |
| Colour :  | Light yellow to blue  |  |
| Appearance :  | Homogeneous Free Flowing powder   |  |
| <b>(II) Rehydrated medium</b>   |   |  |
| pH (post autoclaving/heating) :   | 5.5 ± 0.2   |  |
| Colour (post autoclaving/heating) :   | Dark green  |  |
| Clarity (post autoclaving/heating) :  | Clear semisolid gel   |  |
| <b>(III) Q.C. Test Microbiological</b>  |   |  |
| Cultural characteristics observed after an incubation at 42-43°C for 18-24 hours with added IMRV/RV Selective Supplement (BF135), when one drop of culture is inoculated in the centre of the medium plate.   |   |  |
| MICROORGANISM (ATCC )   | GROWTH  | MOTILITY   |
| Salmonella Typhimurium (14028)  | Good-Luxuriant  | positive, development of purple halos of growth originating from the inoculation spot. |
| Pseudomonas aeruginosa (9027)   | Inhibited   | -  |
| Citrobacter freundii(8090)  | Inhibited   | -  |
| <b>Precautions :</b>  | 1. For Laboratory Use.<br>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.          |  |
| <b>Limitations :</b>  | 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. |  |
| <b>Use :</b>  | It is used for the simultaneous enrichment as well as isolation of motile Salmonella from other competitive organisms.                    |  |
| <b>Storage :</b>  | Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.  |  |
| <b>Packing :</b>  | 500 gm. bottle  |  |

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**TECHNICAL SHEET**

| <b>Product profile:</b> | Reconstitution | Quantity on Preparation (500g) | pH (25°C) | Supplement                 | Sterilization    |
|-------------------------|----------------|--------------------------------|-----------|----------------------------|------------------|
| <b>B1257</b>            | 51.20 g/l      | 9.765L                         | 5.5 ± 0.2 | IMRV/RV Supplement (BF137) | DO NOT AUTOCLAVE |