| B537 | SUCROSE SALICIN AGAR (GILLIES AGAR NO. 2) |
|---|---|
| **Formula** | |
| **Ingredients :** | **gms/lit.** |
| Peptic digest of animal tissue | 10.00 |
| Casein enzymic hydrolysate | 10.00 |
| Sodium chloride | 5.00 |
| Disodium phosphate | 0.25 |
| Sucrose | 10.00 |
| Salicin | 10.00 |
| Bromothymol blue | 0.01 |
| Sodium thiosulphate | 0.025 |
| Agar | 3.00 |
| Final pH (at 25°C) : | 7.4 ± 0.2 |

**Directions :**

Suspend 48.28 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Distribute in tubes and sterilize by autoclaving at 118° - 121°C for 15 minutes (12-15 lbs pressure). Allow the tubes to cool in an upright position. Suspend Kovacs reagent strips and lead acetate papers from the cap or the cotton plug over the medium but not touching the surface of the medium.

**Principle :**

Peptic digest of animal tissue and casein enzymic hydrolysate serve as sources of essential nutrients for bacterial growth. Sodium chloride maintains the osmotic equilibrium of the medium. Sucrose and salicin are the fermentable carbohydrates with bromothymol blue as the pH indicator. Sodium thiosulphate aids in the production of hydrogen sulphide. Fermentation of sucrose and salicin leads to acid production that causes the pH indicator dye, bromothymol blue, to change from blue to yellow.

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| **QC Tests –(I)Dehydrated Medium** | |
| Colour : | Light yellow to light green |
| Appearance : | Homogeneous Free Flowing powder |
| **(II)Rehydrated medium** | |
| pH (post autoclaving/heating) : | 7.4 ± 0.2 |
| Colour (post autoclaving/heating) : | Green |
| Clarity (post autoclaving/heating) : | clear to slightly opalescent gel |

**(III)Q.C. Test Microbiological**

Cultural characteristics observed after 18 - 24 hrs.at 35-37°C.

| MICROORGANISM (ATCC ) | GROWTH | H2S | INDOLE | MOTILITY | SUCROSE/ SALICIN |
|---|---|---|---|---|---|
| Proteus vulgaris (13315) | Luxuriant | weak | weak | positive, growth away from stabline causing turbidity | Positive reaction,yellow colouration of the medium |
| Salmonella Typhi (6539) | Luxuriant | weak | negative | positive, growth away from stabline causing turbidity | negative reaction |
| Shigella sonnei (25931) | Good-Luxuriant | negative | negative | negative growth along the stabline, surrounding medium remains clear | negative reaction |

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| **Precautions :** | 1. For Laboratory Use. |
| | 2. Follow proper, established laboratory procedures in handling 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. |

Refer disclaimer Overleaf



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| **Use :** | It is recommended for detection of motility, hydrogen sulphide, indole production and fermentation of sucrose and salicin for identification of Salmonella and Shigella species. | | | | |
| **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 |
| **B537** | 48.28 g/l | 10.356 L | 7.4 ± 0.2 | NIL | $121^0$C / 15 minutes |

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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