| B539 | GLUCOSE AZIDE BROTH |
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**Formula**

| **Ingredients :** | **gms/lit.** |
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| Peptic digest of animal tissue | 10.00 |
| Yeast extract | 3.00 |
| Sodium chloride | 5.00 |
| Dipotassium phosphate | 5.00 |
| Monopotassium phosphate | 2.00 |
| Dextrose | 5.00 |
| Sodium azide | 0.25 |
| Bromo cresol purple | 0.03 |

Final pH (at 25°C) : 6.7 ± 0.2

**Directions :**

Suspend 30.28 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense 5ml amounts in 16 x150 mm test tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For large inocula of 5 ml or more quantities, prepare double strength medium.

**Principle :**

Peptic digest of animal tissue, yeast extract and dextrose provide nitrogenous compounds, carbon, sulphur, amino acids and trace ingredients. Sodium chloride maintains osmotic balance of the medium. Sodium azide suppresses the growth of gram – negative organisms and thereby allows the cultivation of faecal Streptococci.

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| **QC Tests – (I)Dehydrated Medium** | | |
| Colour : | | Light beige to light purple beige |
| Appearance : | | Homogeneous Free Flowing powder |
| (II)Rehydrated medium | | |
| pH (post autoclaving/heating) : | | 6.7 ± 0.2 |
| Colour (post autoclaving/heating) : | | Light purple |
| Clarity (post autoclaving/heating) : | | Clear |
| **(III)Q.C. Test Microbiological** | | |
| Cultural characteristics observed after 18 - 24 hrs. at 35-37°C. | | |
| MICROORGANISM (ATCC ) | GROWTH | COLOUR CHANGE TO YELLOW |
| Enterococcus faecalis (19433) | Good –luxuriant | Positive |
| Enterococcus hirae (8043) | Good –luxuriant | Positive |
| Escherichia coli (25922) | Inhibited | Negative |
| Staphylococcus aureus (25923) | Inhibited | Negative |

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| **Precautions :** | 1. For Laboratory Use. |
| | 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. materials. |
| | 3. Warning : Sodium azide has a tendency to form explosive metal azides with plumbing It is advisable to use enough water to flush off the disposables. |
| **Limitations :** | 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. |
| **Use :** | For the enumeration of faecal Streptococci by MPN technique from water and sewage |
| **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 |
|---|---|---|---|---|---|
| **B539** | 30.28 g/l | 16.512L | 6.7 ± 0.2 | Nil | $121^0$C / 15 minutes |

Refer disclaimer Overleaf



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Disclaimer:

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