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|--|----------------------------|---|--------------------------------|-----------|---|--------------------|
| B980 | CHOCOLATE AGAR BASE | | | | | |
| Formula | | | | | | |
| Ingredients : | | gms/lit. | | | | |
| Proteose peptone | | 20.00 | | | | |
| Dextrose | | 0.50 | | | | |
| Dipotassium phospahte | | 5.00 | | | | |
| Sodium chloride | | 5.00 | | | | |
| Agar | | 15.00 | | | | |
| Final pH (at 25°C) : 7.3 ± 0.2 | | | | | | |
| Directions : | | | | | | |
| Suspend 45.5 grams in 495 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Aseptically add equal amount of sterile 2% Hemoglobin solution. Also add contents of one vial of Yeast autolysate supplement (BF038) or Vitamino growth supplement (BF037) reconstituted as directed. Mix well before pouring. When single strength is desired suspend 45.5 gms.in 1000 ml distilled water. | | | | | | |
| Principle : | | | | | | |
| Neisseria gonorrhoea is Gram negative organism causing gonorrhoea and occasionally found in throat. The cultivation medium for gonococci should be nutritionally rich preferably with blood (partially/completely lysed). Chocolate agar base with supplements gives excellent growth of gonococci and without overgrowing contaminants. GC agar base is also a medium of choice to get slightly better results for gonococcal cultures. Proteose peptone, dextrose provides nutritional requirements whereas dipotassium phosphate and sodium chloride offering pH and osmolarity balance and agar as solidifying agent. | | | | | | |
| QC Tests - (I) Dehydrated Medium | | | | | | |
| Colour : | | Cream to Yellow | | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | | |
| (II) Rehydrated medium | | | | | | |
| pH (post autoclaving/heating) : | | 7.3 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | | Light amber color with slight opalescent gel. With addition of hemoglobin chocolate brown opaque gel | | | | |
| Clarity (post autoclaving/heating) : | | Clear to very slightly opalescent/opaque | | | | |
| (III) Q.C. Test Microbiological | | | | | | |
| Cultural characteristics observed with added 2% haemoglobin solution, Yeast autolysate Supplement (BF038) or Vitamino Growth Supplement (BF037), after an incubation at 35-37°C for 40-48 hours. | | | | | | |
| MICROORGANISM (ATCC) | | GROWTH | | | | |
| Neisseria gonorrhoea (19424) | | Luxuriant | | | | |
| Neisseria meningitidis (13090) | | Luxuriant | | | | |
| Streptococcus pneumoniae (6303) | | Luxuriant | | | | |
| Streptococcus pneumoniae (19615) | | Luxuriant | | | | |
| Haemophilus influenzae (19418) | | Luxuriant | | | | |
| 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. | | | | |
| Use : | | For isolation of Neisseria gonorrhoea from acute and chronic cases of gonococcal infections. | | | | |
| 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 |
| B980 | | 45.5g/l | 10.98L | 7.3 ± 0.2 | sterile 2% Hemoglobin solution, Yeast autolysate supplement(BF038) or Vitamino growth supplement(BF037) | 121°C / 15 minutes |