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|--|--|---|--------------------------------|------------|-----------------------------------|--------------------|
| B430 | BLOOD AGAR BASE W/ LOW PH (W/O BLOOD) | | | | | |
| Formula | | | | | | |
| Ingredients : | | gms/lit. | | | | |
| Beef heart infusion from – | | | | | | |
| (Beef Extract) | | 500.00 | | | | |
| Tryptose | | 10.00 | | | | |
| Sodium chloride | | 5.00 | | | | |
| Agar | | 15.00 | | | | |
| Final Ph (at 25°C) : 6.8 ± 0.2 | | | | | | |
| Directions : | | | | | | |
| Suspend 40 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add 5%v/v sterile defibrinated blood. Mix well and pour into sterile petri plates. | | | | | | |
| Principle : | | | | | | |
| Blood Agar Base formulations have been prepared using specially selected raw materials to support good growth of a wide variety of fastidious microorganisms. | | | | | | |
| Infusion from Beef Heart and Tryptose provide nitrogen, carbon, amino acids and vitamins in Blood Agar Base is the nitrogen source for Blood Agar Base. It contains Sodium Chloride to maintain osmotic balance and Agar as a solidifying agent. Blood Agar Base is relatively free of reducing sugars, which have been reported to adversely influence the hemolytic reactions of beta-hemolytic streptococci. | | | | | | |
| Supplementation with blood (5-10%) provides additional growth factors for fastidious microorganisms and is the basis for determining hemolytic reactions. Hemolytic patterns may vary with the source of animal blood or type of base medium used. Chocolate agar for isolating Haemophilus and Neisseria species can be prepared from blood agar base by supplementing the medium with 10% sterile defibrinated blood (chocolatized). | | | | | | |
| QC Tests – (I) Dehydrated Medium | | | | | | |
| Colour : | | Cream to yellow | | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | | |
| (II) Rehydrated medium | | | | | | |
| pH (post autoclaving/heating) : | | 6.8 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | | A) Basal medium : Light amber to light yellow B) After addition of 5% sterile defibrinated blood : Cherry red. | | | | |
| Clarity (post autoclaving/heating) : | | A : Clear to slightly opalescent B : Opaque | | | | |
| (III) Q.C. Test Microbiological | | | | | | |
| Cultural characteristics observed after 18-48 hrs. at 35-37°C. | | | | | | |
| MICROORGANISM (ATCC) | | GROWTH W/O BLOOD | GROWTH W/ BLOOD | HAEMOLYSIS | | |
| Neisseria meningitidis (13090) | | Luxuriant | Luxuriant | none | | |
| Staphylococcus aureus (25923) | | Luxuriant | Luxuriant | beta | | |
| Staphylococcus epidermidis (12228) | | Luxuriant | Luxuriant | none | | |
| Staphylococcus pneumoniae (6303) | | Fair to good | Luxuriant | alpha | | |
| Streptococcus pyogenes (19615) | | Fair to good | Luxuriant | beta | | |
| 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 : | | Alter addition of blood medium is used for isolation and cultivation of fastidious organisms, especially Strptococci and Pneumococci. | | | | |
| 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 |
| B430 | | 40g/l | 12.500L | 6.8 ± 0.2 | 5%v/v sterile defibrinated blood. | 121°C / 15 minutes |

Refer disclaimer Overleaf

Disclaimer:

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