

|   |  |   |                                |                                    |
|---|--|---|--------------------------------|------------------------------------|
| <b>B659</b>   | <b>PHENYLETHYL ALCOHOL AGAR / PHENYLETHANOL AGAR</b> |   |                                |                                    |
| <b>Formula</b>  |  |   |                                |                                    |
| <b>Ingredients :</b>  |  | <b>gms/lit.</b>   |                                |                                    |
| Casein enzymic hydrolysate  |  | 10.00   |                                |                                    |
| Meat extract B#   |  | 3.00  |                                |                                    |
| Sodium chloride   |  | 5.00  |                                |                                    |
| Phenylethyl alcohol   |  | 2.50  |                                |                                    |
| Agar  |  | 15.00   |                                |                                    |
| #- Equivalent to Beef extract   |  |   |                                |                                    |
| Final pH (at 25°C) : 7.3± 0.2   |  |   |                                |                                    |
| <b>Directions :</b>   |  |   |                                |                                    |
| Suspend 35.5 gms in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121° C) for 15 minutes. For the preparation of blood agar add 5% v/v sterile defibrinated blood to the sterile molten medium, cooled to 45° C. Mix well and pour into sterile petri plates.   |  |   |                                |                                    |
| <b>Principle :</b>  |  |   |                                |                                    |
| Casein enzyme hydrolysate and Meat extract B provide the nitrogen and carbon required for good growth of a wide variety of organisms. Sodium chloride maintains the osmotic balance. Agar is a solidifying agent. Phenylethanol is bacteriostatic for gram – negative bacteria and inhibits DNA synthesis. Optional addition of 5% defibrinated sheep blood to the basal medium can enhance microorganism recovery on the medium. |  |   |                                |                                    |
| <b>QC Tests – (I)Dehydrated Medium</b>  |  |   |                                |                                    |
| Colour :  |  | Light to medium yellow  |                                |                                    |
| Appearance :  |  | Homogeneous Free Flowing powder   |                                |                                    |
| <b>(II)Rehydrated medium</b>  |  |   |                                |                                    |
| pH (post autoclaving/heating) :   |  | 7.3 ± 0.2   |                                |                                    |
| Colour (post autoclaving/heating) :   |  | a) Basal medium : Light amber<br>b) After addition of 5% v/v sterile defibrinated blood : Cherry red  |                                |                                    |
| Clarity (post autoclaving/heating) :  |  | a) Slightly opalescent<br>b) Opaque   |                                |                                    |
| <b>(III)Q.C. Test Microbiological</b>   |  |   |                                |                                    |
| Cultural characteristics observed after 18 –48 hrs at 35-37°C.  |  |   |                                |                                    |
| MICROORGANISM (ATCC )   |  | GROWTH WITH BLOOD   |                                | COLOUR OF COLONY                   |
| Staphylococcus aureus (25923)   |  | Good to luxuriant   |                                | White to grey or cream to yellow   |
| Enterococcus faecalis (29212)   |  | Good to luxuriant   |                                | Blue – grey                        |
| Salmonella typhi ( 6539 )   |  | None to fair  |                                | -                                  |
| Escherichia coli (25922)  |  | None to poor  |                                | -                                  |
| <b>Precautions :</b>  |  | 1. For Laboratory Use.<br>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.<br>3. HARMFUL. Irritating to eyes, respiratory system and skin. May cause harm to the unborn child. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Eye, Face, Urogenital.  |                                |                                    |
| <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.<br>2. Some gram – positive cocci may be slightly inhibited and may require further incubation (to 48 hours) for sufficient growth to be evident.<br>3. Subculture gram – positive colonies onto Tryptic Soy Agar (TSA), Selenite Broth and other biochemical media for definitive identification.<br>4. Pseudomonas aeruginosa is not inhibited on this medium. |                                |                                    |
| <b>Use :</b>  |  | For selective isolation of gram-positive organisms like Staphylococci and Streptococci.   |                                |                                    |
| <b>Storage :</b>  |  | Dehydrated medium and prepared medium – Between 2 to 8°C.   |                                |                                    |
| <b>Packing :</b>  |  | 500 gm. bottle  |                                |                                    |
| <b>Product profile:</b>   |  | Reconstitution  | Quantity on Preparation (500g) | pH (25°C)                          |
| <b>B659</b>   |  | 35.5g/l   | 14.084L                        | 7.3 ± 0.2                          |
|   |  |   |                                | Supplement                         |
|   |  |   |                                | Sterilization                      |
|   |  |   |                                | 5 % v/v sterile defibrinated blood |
|   |  |   |                                | 121°C / 15 minutes                 |

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