

**TECHNICAL SHEET**

|   |   |                                 |           |                |                    |
|---|---|---------------------------------|-----------|----------------|--------------------|
| <b>B1101</b>  | <b>MODIFIED FUNGAL AGAR BASE (MODIFIED INHIBITORY MOLD AGAR)</b>  |                                 |           |                |                    |
| <b>Formula</b>  |   |                                 |           |                |                    |
| <b>Ingredients :</b>  |   | <b>gms/lit.</b>                 |           |                |                    |
| Casein enzymic hydrolysate  |   | 2.50                            |           |                |                    |
| Peptic digest of animal tissue  |   | 2.50                            |           |                |                    |
| Yeast extract   |   | 5.00                            |           |                |                    |
| Dextrose  |   | 20.00                           |           |                |                    |
| Disodium hydrogen phosphate   |   | 3.50                            |           |                |                    |
| Monopotassium hydrogen phosphate  |   | 3.40                            |           |                |                    |
| Ammonium chloride   |   | 1.40                            |           |                |                    |
| Sodium carbonate  |   | 1.00                            |           |                |                    |
| Magnesium sulphate  |   | 0.06                            |           |                |                    |
| Chloramphenicol   |   | 0.10                            |           |                |                    |
| Agar  |   | 15.00                           |           |                |                    |
| Final pH (at 25°C) : 7.0 ± 0.2  |   |                                 |           |                |                    |
| <b>Directions :</b>   |   |                                 |           |                |                    |
| Suspend 54.5 gms. in 1000ml distilled water. Heat to boiling to dissolve the medium completely. Add 20ml of polysorbate 80. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.  |   |                                 |           |                |                    |
| <b>Principle :</b>  |   |                                 |           |                |                    |
| The medium contains casein enzymic hydrolysate, peptic digest of animal tissue, yeast extract, dextrose and inorganic salts which makes it a very nutritious medium. Potential contaminants of cosmetics and toiletries like Pseudomonas aeruginosa and Serratia marcescens are effectively inhibited by the chloramphenicol in the medium. Sodium and potassium phosphates make the medium well buffered. Polysorbate 80 serves as a neutralizer of preservatives such as methyl paraben and physically hold or seclude the surfactants like sodium lauryl sulphate and lauroyldiethanolamide. These surfactants might suppress the growth or the spore germination of molds. The pH of the medium is neutral which inactivates preservatives such as benzoic acid which is active at pH values below 6.0 but not active at pH near to the neutrality. |   |                                 |           |                |                    |
| <b>QC Tests - (I) Dehydrated Medium</b>   |   |                                 |           |                |                    |
| Colour :  |   | Yellow                          |           |                |                    |
| Appearance :  |   | Homogeneous Free Flowing powder |           |                |                    |
| <b>(II) Rehydrated medium</b>   |   |                                 |           |                |                    |
| pH (post autoclaving/heating) :   |   | 7.0 ± 0.2                       |           |                |                    |
| Colour (post autoclaving/heating) :   |   | Medium amber                    |           |                |                    |
| Clarity (post autoclaving/heating) :  |   | Clear to slightly opalescent    |           |                |                    |
| <b>(III) Q.C. Test Microbiological</b>  |   |                                 |           |                |                    |
| Cultural characteristics observed after 48-72 hrs. at 28°C.   |   |                                 |           |                |                    |
| MICROORGANISM (ATCC )   |   | GROWTH                          |           |                |                    |
| Aspergillus niger (16404 )  |   | Good - luxuriant                |           |                |                    |
| Pseudomonas aeruginosa (27853)  |   | None - poor                     |           |                |                    |
| Escherichia coli (25922)  |   | Inhibited                       |           |                |                    |
| <b>Precautions :</b>  | 1. For Laboratory Use.<br>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.          |                                 |           |                |                    |
| <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. |                                 |           |                |                    |
| <b>Use :</b>  | For estimation of moulds in cosmetics and toiletries.   |                                 |           |                |                    |
| <b>Storage :</b>  | Dehydrated medium- below 8°C 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) | Supplement     | Sterilization      |
| <b>B1101</b>  | 54.5g/l   | 9.174L                          | 7.0 ± 0.2 | polysorbate 80 | 121°C / 15 minutes |

Refer Disclaimer overleaf

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