

**TECHNICAL SHEET**

|   |   |                                |           |            |               |
|---|---|--------------------------------|-----------|------------|---------------|
| <b>B1093</b>  | <b>L.D. AGAR</b>  |                                |           |            |               |
| <b>Formula</b>  |   |                                |           |            |               |
| <b>Ingredients :</b>  |   | <b>gms/lit.</b>                |           |            |               |
| Casein enzymichydrolyate  |   | 5.00                           |           |            |               |
| Yeast extract   |   | 5.00                           |           |            |               |
| Sodium chloride   |   | 2.50                           |           |            |               |
| Sodium sulphite   |   | 0.10                           |           |            |               |
| L-Cystine   |   | 0.40                           |           |            |               |
| L-Tryptophan  |   | 0.20                           |           |            |               |
| Vitamin K1  |   | 0.01                           |           |            |               |
| Hemin   |   | 0.01                           |           |            |               |
| Agar  |   | 20.00                          |           |            |               |
| Final pH (at 25°C) : 7.4 ± 0.2  |   |                                |           |            |               |
| <b>Directions :</b>   |   |                                |           |            |               |
| Suspend 33.22 gms.in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbspressure (121°C) for 15 minutes.  |   |                                |           |            |               |
| <b>Principle :</b>  |   |                                |           |            |               |
| This medium contains various nutritious substances which cn promote the growth of fastidious anaerobic bacteria. Casein enzymichydrolysate and yeast extract proide the necessary nitrogenous nutrients wile Hemin and Vitamin K1 supply additional growth factors. L-Cystine and L-Tryptophan serves as the amino acid sources. Sodium sulphite is an antioxidant. Sodium chloride maintains osmotic balance of the medium. Catalase – positive reaction may not be evident uptil 30 seconds to 1 minte after application of 3% hydrogen peroxide. |   |                                |           |            |               |
| <b>QC Tests – (I)Dehydrated Medium</b>  |   |                                |           |            |               |
| Colour :  | Yellow  |                                |           |            |               |
| Appearance :  | Homogeneous Free Flowing powder   |                                |           |            |               |
| <b>(II)Rehydrated medium</b>  |   |                                |           |            |               |
| pH (post autoclaving/heating) :   | 7.4 ± 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 after40-48 hrs.at 35-37°C under anaerobic condition.  |   |                                |           |            |               |
| MICROORGANISM (ATCC )   | GROWTH  | INDOLE                         | CATALASE  |            |               |
| Bacteroidesfragilis (25285 )  | Good  | -                              | +         |            |               |
| Bacteroidescorrodens  | Fair good   | -                              | -         |            |               |
| Fusobacteriumnecrophorum (25286)  | Good  | +                              | -         |            |               |
| Fusobacteriumnucleatum (25586)  | Fair – good   | +                              | -         |            |               |
| <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 cultivation and identification of fastidious anaerobic bacteria.  |                                |           |            |               |
| <b>Storage :</b>  | Dehydrated medium- below 30°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>B1093</b>  | 33.22g/l  | 15.05 lit                      | 7.4 ± 0.2 | Nil        | 121°C/15 min  |

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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