

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

|  |  |                                 |         |                         |           |            |               |
|--|--|---------------------------------|---------|-------------------------|-----------|------------|---------------|
| <b>B396</b>  |  | <b>ALGAE CULTURE AGAR</b>       |         |                         |           |            |               |
| <b>Formula</b>   |  |                                 |         |                         |           |            |               |
| <b>Ingredients :</b>   |  | <b>gms/lit.</b>                 |         |                         |           |            |               |
| Sodium nitrate   |  | 1.00                            |         |                         |           |            |               |
| Dipotassium phosphate  |  | 0.25                            |         |                         |           |            |               |
| Magnesium sulphate   |  | 0.513                           |         |                         |           |            |               |
| Ammonium chloride  |  | 0.05                            |         |                         |           |            |               |
| Calcium chloride   |  | 0.058                           |         |                         |           |            |               |
| Ferric chloride  |  | 0.003                           |         |                         |           |            |               |
| Agar   |  | 15.00                           |         |                         |           |            |               |
| Final pH (at 25°C) : 7.0 ± 0.2   |  |                                 |         |                         |           |            |               |
| <b>Directions :</b>  |  |                                 |         |                         |           |            |               |
| Suspend 16.87 gms in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 minutes.   |  |                                 |         |                         |           |            |               |
| <b>Principle :</b>   |  |                                 |         |                         |           |            |               |
| The medium provides all necessary nutrients for good growth of Algae but does not provide for other than minimal growth of bacteria and fungi. Stock cultures are prepared by inoculating the surface of slants with algal culture and incubated at room temperature under a suitable light source and can be maintained for several months. |  |                                 |         |                         |           |            |               |
| <b>QC Tests – (I) Dehydrated Medium</b>  |  |                                 |         |                         |           |            |               |
| Colour :   |  | Cream to light yellow           |         |                         |           |            |               |
| Appearance :   |  | Homogeneous Free Flowing powder |         |                         |           |            |               |
| <b>(II) Rehydrated medium</b>  |  |                                 |         |                         |           |            |               |
| pH (post autoclaving/heating) :  |  | 7.0 ± 0.2                       |         |                         |           |            |               |
| Colour (post autoclaving/heating) :  |  | White to off white              |         |                         |           |            |               |
| Clarity (post autoclaving/heating) :   |  | Slightly opalescent             |         |                         |           |            |               |
| <b>(III) Q.C. Test Microbiological</b>   |  |                                 |         |                         |           |            |               |
| Cultural characteristics observed within a week at 20-25°C under suitable light source.  |  |                                 |         |                         |           |            |               |
| MICROORGANISM (ATCC )  |  | GROWTH                          |         |                         |           |            |               |
| Chlorella pyrenoidosa  |  | Good - luxuriant                |         |                         |           |            |               |
| <b>Precautions :</b>   |  |                                 |         |                         |           |            |               |
| 1. For Laboratory Use.   |  |                                 |         |                         |           |            |               |
| 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>   |  |                                 |         |                         |           |            |               |
| <b>B396:</b> For isolation and cultivation of algae from water, soil and sewage.   |  |                                 |         |                         |           |            |               |
| <b>Storage :</b>   |  |                                 |         |                         |           |            |               |
| Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.  |  |                                 |         |                         |           |            |               |
| <b>Packing :</b>   |  |                                 |         |                         |           |            |               |
| 500/100 gm. bottle   |  |                                 |         |                         |           |            |               |
| <b>Product profile:</b>  |  | Reconstitution                  |         | Quantity on Preparation | pH (25°C) | Supplement | Sterilization |
|  |  | (500g)                          | (100g)  |                         |           |            |               |
| <b>B396</b>  |  | 16.87 g/l                       | 29.63 L | 5.92L                   | 7.0 ± 0.2 | None       | 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 BIOMARK LABORATORIES publications.

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