

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

|  |   |                                   |           |            |               |
|--|---|-----------------------------------|-----------|------------|---------------|
| <b>B007</b>  | <b>YEAST EXTRACT CALCIUM CARBONATE GLUCOSE AGAR</b> |                                   |           |            |               |
| <b>Formula</b>   |   |                                   |           |            |               |
| <b>Ingredients :</b>   |   | <b>gms/lit.</b>                   |           |            |               |
| Glucose  |   | 20.00                             |           |            |               |
| Calcium carbonate  |   | 20.00                             |           |            |               |
| Yeast extract  |   | 10.00                             |           |            |               |
| Agar   |   | 15.00                             |           |            |               |
| Final pH (at 25°C) : Self  |   |                                   |           |            |               |
| <b>Directions :</b>  |   |                                   |           |            |               |
| Suspend 65 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.   |   |                                   |           |            |               |
| <b>Principle :</b>   |   |                                   |           |            |               |
| Yeast Extract Calcium Carbonate Glucose Agar is used for the isolation and cultivation of Erwinia species, all these species produce excessive acid. A clear zone surrounding each colony results from acid secretion, which liberates the carbonate as CO <sub>2</sub> .. |   |                                   |           |            |               |
| <b>QC Tests - (I) Dehydrated Medium</b>  |   |                                   |           |            |               |
| Colour :   |   | Off-white                         |           |            |               |
| Appearance :   |   | Homogeneous Free Flowing powder   |           |            |               |
| <b>(II) Rehydrated medium</b>  |   |                                   |           |            |               |
| pH (post autoclaving/heating) :  |   | Self                              |           |            |               |
| Colour (post autoclaving/heating) :  |   | Light yellow                      |           |            |               |
| Clarity (post autoclaving/heating) :   |   | Opalescent with white precipitate |           |            |               |
| <b>(III) Q.C. Test Microbiological</b>   |   |                                   |           |            |               |
| Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours..   |   |                                   |           |            |               |
| MICROORGANISM (ATCC )  |   | GROWTH                            |           |            |               |
| Erwinia caratorcore (15713)  |   | Luxuriant                         |           |            |               |
| Erwinia chrysanttemi (11633)   |   | 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>   |   |                                   |           |            |               |
| For isolation and cultivation of Erwinia spp.  |   |                                   |           |            |               |
| <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>B007</b>  | 65 g/l  | 7.69 L                            | Self      | 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 BIOMARK LABORATORIES publications.

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