

**TECHNICAL SHEET**

|   |  |                                 |           |            |                    |
|---|--|---------------------------------|-----------|------------|--------------------|
| <b>B694</b>   | <b>POTATO MALT AGAR</b>  |                                 |           |            |                    |
| <b>Formula</b>  |  |                                 |           |            |                    |
| <b>Ingredients :</b>  |  | <b>gms/lit.</b>                 |           |            |                    |
| Potatoes infusion from  |  | 200.00                          |           |            |                    |
| Sucrose   |  | 60.00                           |           |            |                    |
| Malt extract  |  | 20.00                           |           |            |                    |
| Peptic digest of animal tissue  |  | 1.00                            |           |            |                    |
| Agar  |  | 20.00                           |           |            |                    |
| Final pH (at 25°C) :  |  | 5.6 ± 0.2                       |           |            |                    |
| <b>Directions :</b>   |  |                                 |           |            |                    |
| Suspend 10.50 gms.in 100 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well before pouring the petri plates.  |  |                                 |           |            |                    |
| <b>Principle :</b>  |  |                                 |           |            |                    |
| Potato infusion, sucrose and malt extract promote luxuriant fungal growth. Adjusting the pH of the medium by tartaric acid inhibits the bacterial growth. Heating the medium after acidification should be avoided as it may hydrolyse the agar which can render the agar unable to solidify. |  |                                 |           |            |                    |
| <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) :  | 5.6 ± 0.2                       |           |            |                    |
|   | Colour (post autoclaving/heating) :  | Light amber                     |           |            |                    |
|   | Clarity (post autoclaving/heating) :   | Clear to slightly opalescent    |           |            |                    |
| <b>(III)Q.C. Test Microbiological</b>   |  |                                 |           |            |                    |
|   | Cultural characteristics observed after 4 – 5 days at 22 - 25°C.   |                                 |           |            |                    |
|   | MICROORGANISM (ATCC )  | GROWTH                          |           |            |                    |
|   | Aspergillus niger (16404 )   | Luxuriant                       |           |            |                    |
|   | Candida albicans (10231 )  | Luxuriant                       |           |            |                    |
|   | Saccharomyces cerevisiae (9763 )   | Luxuriant                       |           |            |                    |
| <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.<br>2. Heating Potato Dextrose Agar after acidifying hydrolyzes the agar and may destroy the solidifying properties.<br>3. Potato Dextrose Agar is not a differential medium. Perform microscopic examination and biochemical tests to identify isolates to genus and species if necessary. |                                 |           |            |                    |
| <b>Use :</b>  | For cultivation and maintenance of smut fungi and other phytopathogenic fungi.   |                                 |           |            |                    |
| <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>B694</b>   | 105.0g/l   | 4.76 L                          | 5.6 ± 0.2 | NIL        | 121°C / 15 minutes |

**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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