

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

|   |                          |   |                                |           |                    |               |
|---|--------------------------|---|--------------------------------|-----------|--------------------|---------------|
| <b>B418</b>   | <b>BEEF EXTRACT AGAR</b> |   |                                |           |                    |               |
| <b>Formula</b>  |                          |   |                                |           |                    |               |
| <b>Ingredients :</b>  |                          | <b>gms/lit.</b>   |                                |           |                    |               |
| Peptone   |                          | 10.00   |                                |           |                    |               |
| Beef extract  |                          | 3.00  |                                |           |                    |               |
| Sodium chloride   |                          | 5.00  |                                |           |                    |               |
| Agar  |                          | 15.00   |                                |           |                    |               |
| Final pH (at 25°C) : 7.6 ± 0.2  |                          |   |                                |           |                    |               |
| <b>Directions :</b>   |                          |   |                                |           |                    |               |
| Suspend 33.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour the medium in sterile Petri plates.  |                          |   |                                |           |                    |               |
| <b>Principle :</b>  |                          |   |                                |           |                    |               |
| It contains beef extract and peptone as a source of nitrogen and carbon while sodium chloride acts as a source of electrolytes. It can be used as a general purpose nutrient medium and is also recommended for preparation of pure culture of Candida species before carrying out fermentation studies. Agar is the solidifying agent. |                          |   |                                |           |                    |               |
| <b>QC Tests – (I)Dehydrated Medium</b>  |                          |   |                                |           |                    |               |
| Colour :  |                          | Cream to yellow   |                                |           |                    |               |
| Appearance :  |                          | Homogeneous Free Flowing powder   |                                |           |                    |               |
| <b>(II)Rehydrated medium</b>  |                          |   |                                |           |                    |               |
| pH (post autoclaving/heating) :   |                          | 7.6 ± 0.2   |                                |           |                    |               |
| Colour (post autoclaving/heating) :   |                          | Cream to yellow   |                                |           |                    |               |
| Clarity (post autoclaving/heating) :  |                          | Clear to slightly opalescent  |                                |           |                    |               |
| <b>(III)Q.C. Test Microbiological</b>   |                          |   |                                |           |                    |               |
| Cultural characteristics observed after 18 - 48 hours at 35-37° C.  |                          |   |                                |           |                    |               |
| MICROORGANISM (ATCC )   |                          | GROWTH  |                                |           |                    |               |
| Escherichia coli (25922 )   |                          | Luxuriant   |                                |           |                    |               |
| Staphylacoccus aureus (25923)   |                          | Luxuriant   |                                |           |                    |               |
| Candida albicans (10231 )   |                          | Luxuriant   |                                |           |                    |               |
| Salmonella typhi ( 6539 )   |                          | Luxuriant   |                                |           |                    |               |
| Pseudomonas aeruginosa (27853)  |                          | 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. |                                |           |                    |               |
| <b>Use :</b>  |                          | For routine cultivation of non-fastidious 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>B418</b>   | 33g/l                    | 15.151L   | 7.6 ± 0.2                      | NIL       | 121°C / 15 minutes |               |