

**TECHNICAL SHEET**

|   |   |   |                                     |            |                    |
|---|---|---|-------------------------------------|------------|--------------------|
| <b>B946</b>   | <b>BLUE AGAR</b>  |   |                                     |            |                    |
| <b>Formula</b>  |   |   |                                     |            |                    |
| <b>Ingredients :</b> <span style="float:right"><b>gms/lit.</b></span>   |   |   |                                     |            |                    |
| Peptic digest of animal tissue  | 10.00   |   |                                     |            |                    |
| Beef extract  | 5.00  |   |                                     |            |                    |
| Sodium chloride   | 5.00  |   |                                     |            |                    |
| Agar  | 15.00   |   |                                     |            |                    |
| Bromo thymol blue   | 0.08  |   |                                     |            |                    |
| Final pH (at 25°C) : 7.6 ± 0.2  |   |   |                                     |            |                    |
| <b>Directions :</b>   |   |   |                                     |            |                    |
| Suspend 35.08 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. If desired carbohydrates can be added to it before sterilization. Dispense as desired.   |   |   |                                     |            |                    |
| <b>Principle :</b>  |   |   |                                     |            |                    |
| Peptic digest of animal tissue and beef extract provides essential nutrients for bacterial metabolism. Bromo thymol blue is pH indicator for indicating the acid production due to carbohydrate fermentation. It turns yellow at acidic pH and imparts yellow colour to the colony. Alkalization produces a blue colouration. Addition of 0.28g/l metachrome yellow to suppress the swarming of Proteus species |   |   |                                     |            |                    |
| <b>QC Tests - (I) Dehydrated Medium</b>   |   |   |                                     |            |                    |
| Colour :  |   | Light yellow to yellow with green tinge |                                     |            |                    |
| Appearance :  |   | Homogeneous Free Flowing powder         |                                     |            |                    |
| <b>(II) Rehydrated medium</b>   |   |   |                                     |            |                    |
| pH (post autoclaving/heating) :   |   | 7.6 ± 0.2                               |                                     |            |                    |
| Colour (post autoclaving/heating) :   |   | Bluish green                            |                                     |            |                    |
| Clarity (post autoclaving/heating) :  |   | clear to slightly opalescent            |                                     |            |                    |
| <b>(III) Q.C. Test Microbiological</b>  |   |   |                                     |            |                    |
| Cultural characteristics observed after 18-24 hrs at 35-37°C.   |   |   |                                     |            |                    |
| MICROORGANISM (ATCC )   |   | GROWTH                                  | Colour of colony(w/ added dextrose) |            |                    |
| Escherichia coli (25922)  |   | good-luxuriant                          | Yellow                              |            |                    |
| Pseudomonas aeruginosa (9027)   |   | good-luxuriant                          | Yellow                              |            |                    |
| Salmonella Typhimurium (14028)  |   | good-luxuriant                          | Yellow                              |            |                    |
| Staphylococcus aureus (25923)   |   | good-luxuriant                          | Yellow                              |            |                    |
| <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>  |   |   |                                     |            |                    |
|   | It is a general-purpose nutrient medium containing an acid base indicator. With appropriate additions it can be used in fermentation studies. |   |                                     |            |                    |
| <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>B946</b>   | 35.08 g/l   | 14.253 L                                | 7.6± 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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