

**TECHNICAL SHEET**

|  |                                     |  |  |                                |  |
|--|-------------------------------------|--|--|--------------------------------|--|
| <b>BS006</b>   | <b>ANTIBIOTIC ASSAY MEDIUM NO.6</b> |  |  |                                |  |
| <b>Formula</b>   |                                     |  |  |                                |  |
| <b>Ingredients:</b>  |                                     | <b>gms/lit.</b>  |  |                                |  |
| Casein enzymic hydrolysate   |                                     | 17.00  |  |                                |  |
| Papaic digest of soyabean meal   |                                     | 3.00   |  |                                |  |
| Dextrose   |                                     | 2.50   |  |                                |  |
| Sodium chloride  |                                     | 5.00   |  |                                |  |
| Dipotassium phosphate  |                                     | 2.50   |  |                                |  |
| Manganese sulphate   |                                     | 0.030  |  |                                |  |
| Final pH (at 25°C) :   |                                     | 7.0 ± 0.2  |  |                                |  |
| <b>Directions :</b>  |                                     |  |  |                                |  |
| Suspend 30.03 gms in 1000ml. distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.  |                                     |  |  |                                |  |
| <b>Principle :</b>   |                                     |  |  |                                |  |
| Nutrients and growth factors are supplied by the ingredients like Casein enzymic hydrolysate and Vetc. Sodium chloride maintains the osmotic equilibrium. Phosphate is included for good buffering action. Dextrose is a carbon and energy source. |                                     |  |  |                                |  |
| <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) :  |                                     | Light yellow to light amber                            |  |                                |  |
| Clarity (post autoclaving/heating) :   |                                     | Clear solution which may contain a slight precipitate. |  |                                |  |
| <b>(III)Q.C. Test Microbiological</b>  |                                     |  |  |                                |  |
| Cultural characteristics observed after an incubation at different temperatures for 6 days.  |                                     |  |  |                                |  |
| MICROORGANISM (ATCC)   |                                     | GROWTH   |  | AT                             |  |
| Bacillus subtilis (6633)   |                                     | Luxuriant  |  | 35°C                           |  |
| Bacillus cereus (10876)  |                                     | Luxuriant  |  | 30°C                           |  |
| Bacillus stearothermophilus (7953)   |                                     | Luxuriant  |  | 55°C                           |  |
| Bacillus pumilus (14884)   |                                     | Luxuriant  |  | 35°C                           |  |
| SPORES   |                                     | positive   |  |                                |  |
| SPORES   |                                     | positive   |  |                                |  |
| SPORES   |                                     | positive   |  |                                |  |
| SPORES   |                                     | positive   |  |                                |  |
| SPORES   |                                     | positive   |  |                                |  |
| <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 used for induction of spore production in Bacillus subtilis strains used in antibiotic assays.   |                                     |  |  |                                |  |
| <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) |  |
| <b>BS006</b>   |                                     | 30.03 g/l  |  | 16.650 L                       |  |
|  |                                     | pH (25°C)  |  | Supplement                     |  |
|  |                                     | 7.0 ± 0.2  |  | Nil                            |  |
|  |                                     | Sterilization  |  | 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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