

|   |                                      |   |  |                                |  |
|---|--------------------------------------|---|--|--------------------------------|--|
| <b>BS028</b>  | <b>ANTIBIOTIC ASSAY MEDIUM NO.41</b> |   |  |                                |  |
| <b>Formula</b>  |                                      |   |  |                                |  |
| <b>Ingredients:</b>   |                                      | <b>gms/lit.</b>   |  |                                |  |
| Casein enzymic hydrolysate  |                                      | 9.00  |  |                                |  |
| Yeast extract   |                                      | 5.00  |  |                                |  |
| Dextrose  |                                      | 20.00   |  |                                |  |
| Dipotassium phosphate   |                                      | 1.00  |  |                                |  |
| Potassium dihydrogen phosphate  |                                      | 1.00  |  |                                |  |
| Sodium citrate  |                                      | 10.00   |  |                                |  |
| Final pH (at 25°C) :  |                                      | 6.8 ± 0.2   |  |                                |  |
| <b>Directions :</b>   |                                      |   |  |                                |  |
| Suspend 46.0 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 hydrolysate and Yeast extract. Dextrose as a sugar is also supplemented as 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):  |                                      | 6.8 ± 0.2   |  |                                |  |
| Colour (post autoclaving/heating) :   |                                      | Light to amber to Light yellow  |  |                                |  |
| Clarity (post autoclaving/heating) :  |                                      | Clear   |  |                                |  |
| <b>(III) Q.C. Test Microbiological</b>  |                                      |   |  |                                |  |
| Cultural characteristics observed after 18-24 hrs. at 35-37°C.  |                                      |   |  |                                |  |
| MICROORGANISM (ATCC)  |                                      | GROWTH  |  | SERIAL DILUTION TEST WITH      |  |
| Streptococcus faecium (10541)   |                                      | Luxuriant   |  | Thiostreptone                  |  |
| <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>   |                                      | It is used for the microbiological assay of Thiostrepton using Enterococcus hirae as the test organism as per USP/IP.                     |  |                                |  |
| <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>BS028</b>  |                                      | 46.0 g/l  |  | 10.86 L                        |  |
|   |                                      | 6.8 ± 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 BIOMARK LABORATORIES publications.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.