

**BIOMARK Laboratories-INDIA**

[www.biomarklabs.com](http://www.biomarklabs.com)

**TECHNICAL SHEET**

|                                                                                                                                                                                                                                                                     |                                                                                                                                                               |                                  |           |            |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------|------------|----------------|
| <b>B1433</b>                                                                                                                                                                                                                                                        | <b>TRYPTONE SOYA YEAST EXTRACT AGAR</b>                                                                                                                       |                                  |           |            |                |
| <b>Formula</b>                                                                                                                                                                                                                                                      |                                                                                                                                                               |                                  |           |            |                |
| <b>Ingredients :</b>                                                                                                                                                                                                                                                |                                                                                                                                                               | <b>gms/lit.</b>                  |           |            |                |
| Casein enzymic hydrolysate                                                                                                                                                                                                                                          |                                                                                                                                                               | 17.00                            |           |            |                |
| Papaic digest of soyabean meal                                                                                                                                                                                                                                      |                                                                                                                                                               | 3.00                             |           |            |                |
| Sodium chloride                                                                                                                                                                                                                                                     |                                                                                                                                                               | 5.00                             |           |            |                |
| Dipotassium hydrogen phosphate                                                                                                                                                                                                                                      |                                                                                                                                                               | 2.50                             |           |            |                |
| Dextrose                                                                                                                                                                                                                                                            |                                                                                                                                                               | 2.50                             |           |            |                |
| Yeast extract                                                                                                                                                                                                                                                       |                                                                                                                                                               | 6.00                             |           |            |                |
| Agar                                                                                                                                                                                                                                                                |                                                                                                                                                               | 15.00                            |           |            |                |
| Final pH (at 25°C) : 7.3 ± 0.2                                                                                                                                                                                                                                      |                                                                                                                                                               |                                  |           |            |                |
| <b>Directions :</b>                                                                                                                                                                                                                                                 |                                                                                                                                                               |                                  |           |            |                |
| Suspend 51 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. Mix well and pour into sterile Petri plates.                                                    |                                                                                                                                                               |                                  |           |            |                |
| <b>Principle :</b>                                                                                                                                                                                                                                                  |                                                                                                                                                               |                                  |           |            |                |
| Casein enzymic hydrolysate and papaic digest of soyabean meal provide amino acids and other complex nitrogenous substances. Dextrose is the energy source. Dipotassium hydrogen phosphate buffers the medium. Yeast extract is the rich source of vitamin B complex |                                                                                                                                                               |                                  |           |            |                |
| <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) :                                                                                                                                                                                                                                     |                                                                                                                                                               | 7.3 ± 0.2                        |           |            |                |
| Colour (post autoclaving/heating) :                                                                                                                                                                                                                                 |                                                                                                                                                               | Light amber to yellow            |           |            |                |
| Clarity (post autoclaving/heating) :                                                                                                                                                                                                                                |                                                                                                                                                               | Clear to slightly opalescent gel |           |            |                |
| <b>(III)Q.C. Test Microbiological</b>                                                                                                                                                                                                                               |                                                                                                                                                               |                                  |           |            |                |
| Cultural characteristics observed after an incubation at 30-37°C for 24-48 hours.                                                                                                                                                                                   |                                                                                                                                                               |                                  |           |            |                |
| MICROORGANISM (ATCC )                                                                                                                                                                                                                                               |                                                                                                                                                               | GROWTH                           |           |            |                |
| Listeria monocytogenes (19111 )                                                                                                                                                                                                                                     |                                                                                                                                                               | Good -Luxuriant                  |           |            |                |
| Listeria monocytogenes (19118 )                                                                                                                                                                                                                                     |                                                                                                                                                               | Good - 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>                                                                                                                                                                                                                                                        | Tryptone soya agar is recommended for confirmation of Listeria in Henny's light. It is also recommended by ISO committee as per specification ISO 10560:1993. |                                  |           |            |                |
| <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>B1433</b>                                                                                                                                                                                                                                                        | 51g/l                                                                                                                                                         | 9.803L                           | 7.3 ± 0.2 | NIL        | 121°C /15 min. |

**BIOMARK Laboratories-INDIA**

[www.biomarklabs.com](http://www.biomarklabs.com)

**TECHNICAL SHEET**