

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

|  |                                  |   |                                |           |   |                    |
|--|----------------------------------|---|--------------------------------|-----------|---|--------------------|
| <b>B315</b>  | <b>SALT POLYMYXIN BROTH BASE</b> |   |                                |           |   |                    |
| <b>Formula</b>   |                                  |   |                                |           |   |                    |
| <b>Ingredients :</b>   |                                  | <b>gms/lit.</b>   |                                |           |   |                    |
| Casein enzymic hydrolysate   |                                  | 10.00   |                                |           |   |                    |
| Yeast extract  |                                  | 3.00  |                                |           |   |                    |
| Sodium chloride  |                                  | 20.00   |                                |           |   |                    |
| Final pH (at 25°C) :   |                                  | 8.8 ± 0.2   |                                |           |   |                    |
| <b>Directions :</b>  |                                  |   |                                |           |   |                    |
| Suspend 16.5 grams in 500 ml distilled water. Heat if necessary, to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45 - 50°C and aseptically add rehydrated contents of 1 vial of Polymyxin B Selective Supplement (BF005). Mix well and dispense as desired.   |                                  |   |                                |           |   |                    |
| <b>Principle :</b>   |                                  |   |                                |           |   |                    |
| Casein enzymic hydrolysate and yeast extract provide nitrogenous compounds, carbon, sulphur, trace elements and vitamin B complex, essential for the growth. Polymyxin B sulphate inhibits gram-positive organisms. Higher concentration of Sodium chloride is added for detection and enumeration of salt tolerant <i>Vibrio parahaemolyticus</i> . After the incubation a loopful is subculture on solid medium such as TCBS agar(B042) for further studies. |                                  |   |                                |           |   |                    |
| <b>QC Tests - (I)Dehydrated Medium</b>   |                                  |   |                                |           |   |                    |
| Colour :   |                                  | Light to medium yellow  |                                |           |   |                    |
| Appearance :   |                                  | Homogeneous Free Flowing powder   |                                |           |   |                    |
| <b>(II)Rehydrated medium</b>   |                                  |   |                                |           |   |                    |
| pH (post autoclaving/heating) :  |                                  | 8.8 ± 0.2   |                                |           |   |                    |
| Colour (post autoclaving/heating) :  |                                  | Light yellow  |                                |           |   |                    |
| Clarity (post autoclaving/heating) :   |                                  | Clear   |                                |           |   |                    |
| <b>(III)Q.C. Test Microbiological</b>  |                                  |   |                                |           |   |                    |
| Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours with added Polymyxin B Selective Supplement(BF005)  |                                  |   |                                |           |   |                    |
| MICROORGANISM (ATCC )  |                                  | GROWTH  |                                |           |   |                    |
| <i>Vibrio parahaemolyticus</i> (11344)   |                                  | Luxuriant   |                                |           |   |                    |
| <i>Vibrio cholerae</i> (14035 )  |                                  | 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 detection and enumeration of <i>Vibrio</i> species.   |                                |           |   |                    |
| <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>B315</b>  |                                  | 33g/l   | 15.151L                        | 8.8 ± 0.2 | Polymyxin B Selective Supplement (BF005). | 121°C / 15 minutes |