## **BIOMARK Laboratories-INDIA**

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## **TECHNICAL SHEET**

| B933 ASPARAGINE F               | ASPARAGINE PROLINE BROTH |  |  |  |  |
|---------------------------------|--------------------------|--|--|--|--|
| Formula                         |                          |  |  |  |  |
| Ingredients:                    | gms/lit.                 |  |  |  |  |
| DL-Asparagine                   | 2.00                     |  |  |  |  |
| L-Proline                       | 1.00                     |  |  |  |  |
| Di potassium phosphate, anhydro | s 1.00                   |  |  |  |  |
| Magnesium sulphate              | 0.50                     |  |  |  |  |
| Potassium sulphate              | 10.00                    |  |  |  |  |
| Final pH (at 25°C): 7.2±0.2     |                          |  |  |  |  |
| Directions:                     |                          |  |  |  |  |

Suspend 14.5 grams (for single strength medium) or 23.2 grams (for concentrated medium) in 1000 ml distilled water containing 25 ml or 40 ml ethanol respectively. Heat to boiling to dissolve the medium completely. Distribute as desired in screw-capped bottles. Close the caps so that the seal in the lid just touches the lip of the bottle. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Tighten the caps of the bottles immediately after removal from the autoclave to prevent loss of ethanol by evaporation. It is not advisable to use polypropylene caps without seals. Alternatively, ethanol may be sterilized separately by filtration and then added aseptically to the sterile cooled medium.

## Principle:

Asparagine Proline Broth contains both the enantiomeric forms of Aspargine, which is readily utilized by Pseudomonas for their growth. Phosphate and sulphates provide the ions for the growth as well as buffers the medium to promote the growth of the organism.

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|---|--|---|--|--|---|--|
| QC Tests - (I)Dehydrated Medium   |  |   |  |  |   |  |
| Colour:   |  |   | White to off white   |  |   |  |
| Appearance :  |  |   | Homogeneous Free Flowing powder  |  |   |  |
| (II)Rehydrated medium   |  |   |  |  |   |  |
| pH (post autoclaving/heating):  |  |   | 7.2±0.2  |  |   |  |
| Colour (post autoclaving/heating):  |  |   | Colourless   |  |   |  |
| Clarity (post autoclaving/heating):   |  |   | Clear  |  |   |  |
| (III)Q.C. Test Microbiological  |  |   |  |  |   |  |
| Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours  |  |   |  |  |   |  |
| MICROORGANISM (ATCC ) GRO   |  |   | OWTH   |  |   |  |
| Pseudomonas aeruginosa (27853) Lux  |  |   | curiant with greenish yellow pigment   |  |   |  |
| i (25922)   |  | ne to poor  |  |  |   |  |
| 1. For Laboratory Use.  |  |   |  |  |   |  |
| 2. Follow proper, established laboratory procedures in handling and disposing infectious materials.   |  |   |  |  |   |  |
| <b>mitations :</b> 1. Since the nutritional requirements of organisms vary, some strains may b encountered that fail to grow or grow poorly on this medium. |  |   |  |  |   |  |
| For the cultivation of Pseudomonas aeruginosa using membrane filter technique.  |  |   |  |  |   |  |
| Dehydrated medium-below30°C Prepared medium - Between 2 to 8°C.   |  |   |  |  |   |  |
| 500 gm. bottle  |  |   |  |  |   |  |
| Reconstitution  | - ,  |   | pH (25°C)  | Supplement   | Sterilization   |  |
| 14.5 g/l  | 34.48 L  | ·   | 7.2±0.2  | Nil  | 121°C /15 min.  |  |
|   | ving/heating): utoclaving/heating utoclaving/heatin | dium ving/heating): utoclaving/heating): utoclaving/heating): utoclaving/heating): crobiological teristics observed after an M (ATCC) aeruginosa (27853) Lux i (25922) Noi 1. For Laboratory Use. 2. Follow proper, establish infectious materials. 1. Since the nutritional rencountered that fail to graph for the cultivation of Pseu Dehydrated medium-below 500 gm. bottle Reconstitution Quantity preparation | white to o Homogene H | White to off white  Homogeneous Free Flow  redium  wing/heating):  Itoclaving/heating):  Colourless  Itoclaving/heating):  Clear  Crobiological  Iteristics observed after an incubation at 35-37°C for M (ATCC)  GROWTH  Geruginosa (27853)  Luxuriant with greenish yellow  (25922)  None to poor  1. For Laboratory Use.  2. Follow proper, established laboratory procedure infectious materials.  1. Since the nutritional requirements of organism encountered that fail to grow or grow poorly on this For the cultivation of Pseudomonas aeruginosa usin Dehydrated medium-below30°C Prepared medium 500 gm. bottle  Reconstitution  Quantity on  Preparation (500g) | White to off white  Homogeneous Free Flowing powder  Proving/heating):  Toclaving/heating):  Clear  Crobiological  Iteristics observed after an incubation at 35-37°C for 24-48 hours  M (ATCC)  GROWTH  Geruginosa (27853)  Luxuriant with greenish yellow pigment  (25922)  None to poor  1. For Laboratory Use.  2. Follow proper, established laboratory procedures in handling infectious materials.  1. Since the nutritional requirements of organisms vary, some encountered that fail to grow or grow poorly on this medium.  For the cultivation of Pseudomonas aeruginosa using membrane for Dehydrated medium-below30°C Prepared medium - Between 2 to 500 gm. bottle  Reconstitution  Quantity on Preparation (500g)  Preparation (500g) |  |