

**TECHNICAL SHEET**

|  |                    |   |                                |                 |            |                   |
|--|--------------------|---|--------------------------------|-----------------|------------|-------------------|
| <b>B851</b>  | <b>MP-7 MEDIUM</b> |   |                                |                 |            |                   |
| <b>Formula</b>   |                    |   |                                |                 |            |                   |
| <b>Ingredients :</b>   |                    |   |                                | <b>gms/lit.</b> |            |                   |
| Pectin   |                    |   |                                | 5.00            |            |                   |
| Monopotassium phosphate  |                    |   |                                | 4.00            |            |                   |
| Disodium phosphate   |                    |   |                                | 6.00            |            |                   |
| Ammonium sulphate  |                    |   |                                | 2.00            |            |                   |
| Yeast extract  |                    |   |                                | 1.00            |            |                   |
| Ferrous sulphate 0.001   |                    |   |                                |                 |            |                   |
| Magnesium sulphate   |                    |   |                                | 0.20            |            |                   |
| Calcium chloride 0.001   |                    |   |                                |                 |            |                   |
| Boric acid 0.00001   |                    |   |                                |                 |            |                   |
| Manganese sulphate 0.00001   |                    |   |                                |                 |            |                   |
| Zinc sulphate 0.00007  |                    |   |                                |                 |            |                   |
| Copper sulphate 0.00005  |                    |   |                                |                 |            |                   |
| Molybdenum trioxide 0.00001  |                    |   |                                |                 |            |                   |
| Agar   |                    |   |                                | 15.00           |            |                   |
| Final pH (at 25°C) : 7.2± 0.2  |                    |   |                                |                 |            |                   |
| <b>Directions :</b>  |                    |   |                                |                 |            |                   |
| Suspend 33.2 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. Due to presence of various inorganic salts, slight precipitate may develop after heating. Shake well before pouring into sterile petri plates. Polysaccharride precipitant solution: Dissolve 1.0 gm of hexadecyltrimethyl ammonium bromide in 100 ml of water and the solution is sterilized by autoclaving if desired. |                    |   |                                |                 |            |                   |
| <b>Principle :</b>   |                    |   |                                |                 |            |                   |
| Detection of pectinolytic activity of an organism is carried out either by observing depression in the gel around the colony where the substrate has been degraded or by flooding the plate with a precipitant solution.   |                    |   |                                |                 |            |                   |
| <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) :  |                    | 7.2 ± 0.2   |                                |                 |            |                   |
| Colour (post autoclaving/heating) :  |                    | Yellow  |                                |                 |            |                   |
| Clarity (post autoclaving/heating) :   |                    | clear to slightly opalescent gel  |                                |                 |            |                   |
| <b>(III) Q.C. Test Microbiological</b>   |                    |   |                                |                 |            |                   |
| Cultural characteristics observed after an incubation at 30-35°C for 3-5 days.   |                    |   |                                |                 |            |                   |
| MICROORGANISM (ATCC )  |                    | PECTATE LYASE PRODUCTION  |                                |                 |            |                   |
| Erwinia carotovora(15713)  |                    | positive, clear halo around the colony when flooded with 1% polysaccharride precipitant.  |                                |                 |            |                   |
| Erwinia chrysanthemi (11663)   |                    | positive, clear halo around the colony when flooded with 1% polysaccharride precipitant   |                                |                 |            |                   |
| <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 cultivation of pectinolytic microorganisms especially those producing pectate lyase.                                   |                                |                 |            |                   |
| <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>B851</b>  |                    | 33.20 g/l   | 15.060 L                       | 7.2 ± 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 BIOMARKLABORATORIES publications.

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