

**TECHNICAL SHEET**

<b>B1074</b>	<b>JENSEN SEEDLING AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Calcium phosphate		1.00			
Dipotassium phosphate		0.20			
Magnesium sulphate		0.20			
Sodium chloride		0.20			
Ferric chloride		0.10			
Agar		15.00			
Final pH (at 25°C) : 7.0± 0.2					
<b>Directions :</b>					
Suspend 16.7 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 dispense as desired.					
<b>Principle:</b>					
Calcium stimulates nodulation when present as chloride or sulphate. Sodium chloride maintains the osmotic balance of the medium. Dipotassium phosphates provide buffering to the medium. Magnesium sulphate and ferric chloride are sources of ions that simulate metabolism.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Cream to beige			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Light cream			
Clarity (post autoclaving/heating) :		clear to slightly opalescent with a slight precipitate.			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed at 30°C for 7 days.					
MICROORGANISM (ATCC )		GROWTH			
Rhizobium japonicum(10324)		luxuriant			
Rhizobium leguminosarum (10004)		luxuriant			
Rhizobium meliloti (9930)		luxuriant			
<b>Precautions :</b>	1. For Laboratory Use. 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 germinating seeds of leguminous plants while studying the nodulating ability of Rhizobium isolates.				
<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>B1074</b>	16.7g/l	29.94 L	7.0± 0.2	Nil	121°C/15 min.

**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.

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