TECHNICAL SHEET

B1074	**JENSEN SEEDLING AGAR**

Formula

Ingredients :	**gms/lit.**
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

Directions :

Suspend 16.7 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Principle:

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.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to beige
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	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.
(III)Q.C. Test Microbiological		
	Cultural characteristics observed at 30°C for 7 days.	
	MICROORGANISM (ATCC)	GROWTH
	Rhizobium japonicum(10324)	luxuriant
	Rhizobium leguminosarum (10004)	luxuriant
	Rhizobium meliloti (9930)	luxuriant

Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use :	It isused for germinating seeds of leguminous plants while studying the nodulating ability of Rhizobiumisolates.
Storage :	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.
Packing :	500 gm bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1074	16.7g/l	29.94 L	7.0± 0.2	Nil	121^{0}C/15 min.

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