BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B826	**YEAST LACTOSE AGAR**
Formula	
Ingredients:	**gms/lit.**
Yeast extract	1.00
Lactose	10.00
Dipotassium hydrogen phosphate	0.50
Magnesium sulphate	0.20
Sodium chloride	0.10
Agar	15.00
Final pH (at 25°C) : 6.8 ± 0.2	

Directions :

Suspend 26.8 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired. Sterilize by steaming for 30 minutes on two consecutive days. Confirm sterility by leaving it at room temperature (30 ± 2°C) for 3-4 days. Alternatively, the medium can be sterilized by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle :

Yeast extract serves as a good source of readily available amino acids, including vitamin B complex and accessory growth factors. It also poises the oxidation-reduction potential of medium in the range favourable for Rhizobia and serves as hydrogen donor in respiratory process (4). Lactose is the fermentable carbohydrate source. Magnesium provides cations essential for the growth of Rhizobia

QC Tests – (I)Dehydrated Medium			
	Colour :	Cream to yellow	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	6.8 ± 0.2	
	Colour (post autoclaving/heating) :	Light yellow	
	Clarity (post autoclaving/heating) :	Opalescent gel	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after 2-5 days at 25 - 30°C.		
	MICROORGANISM (ATCC)	GROWTH	
	Rhizobium japonicum(13024)	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 is used for cultivation of soil microorganisms such as Rhizobium species
Storage :	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (100g)	pH (25°C)	Supplement	Sterilization
B826	26.8 g/l	3.73L	6.8 ± 0.2	Nil	steaming for 30 minutes on two consecutive days or at 121^{0}C/15 min.