## **BIOMARK Laboratories-INDIA**

## www.biomarklabs.com

## **TECHNICAL SHEET**

B845 ASPARAGINE NI	ASPARAGINE NITRATE MEDIUM			
Formula				
Ingredients:	gms/lit.			
Potassium nitrate	1.00			
L-aspargine	1.00			
Sodium citrate	8.50			
Potassium dihydrogen phosphate	1.00			
Magnesium sulphate	1.00			
Calcium chloride	0.20			
Ferric chloride	0.0001			
Agar	15.00			
Final pH (at 25°C): Self				
Directions :				

Suspend 27.7 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

# Principle:

The conversion of nitrate and nitrite into molecular nitrogen or nitrous oxide through microbial processes is known as denitrification. Denitrification of bound nitrogen to gaseous nitrogen is mediated by numerous species of bacteria, which normally use oxygen of the air as hydrogen acceptor (anaerobic) but also posses the ability to use nitrates and nitrites in the place of oxygen (anaerobically). Asparagine is source of organic nitrogen and is readily available for microbial energy and growth while the salts in the medium help for growth of microorganisms.

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QC	Tests - (I)Dehy	drated Medium							
	Colour:			Cream to light yellow					
	Appearance :			Homogeneous Free Flowing powder					
(II)Rehydrated medium									
	pH (post autoclaving/heating):			Self					
	Colour (post autoclaving/heating):			Cream to light amber					
	Clarity (post autoclaving/heating):			Clear to slightly opalescent					
(II	I)Q.C. Test Mi	crobiological							
	Cultural characteristics observed upto 7 days at 25-30°C.								
	MICROORGANISM (ATCC )			GROW	ГН				
	Thiobacillus denitrificans (29685)			Good					
	Pseudomonas aeruginosa (27853)			Luxuria	nt				
	Achromobacter species			Luxuria	nt				
	Bacillus subtilis (6633)			Luxuria	nt				
	Micrococcus luteus (10240)			Luxuria	nt				
Precautions :		1. For Laboratory Use.							
		2. Follow proper, established laboratory procedures in handling and disposing of							
	infectious materials.								
			equirements of organisms vary, some strains may be						
				ow or grow poorly on this medium.					
				ation of denitrifying bacteria from soil.					
		dium-below30	v30°C Prepared medium - Between 2 to 8°C.						
Packing: 500 gm. bottle									
Product profile:		Reconstitution	Quantity on Preparation (5	(00g	pH (25°C)	Supplement	Sterilization		
B84	45	27.7 g/l	18.05 L	~ ~ ~	Self	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 BIOMARKLABORATORIES publications.

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