BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B839	**SEAWATER AGAR (TWIN PACK)**
Formula	
Ingredients :	**gms/lit.**
PART A:	
Peptic digest of animal tissue	5.00
Yeast extract	5.00
Beef extract	3.00
Agar	15.00
PART B:	
Sodium chloride	24.000
Potassium chloride	0.700
Magnesium chloride, 6H2O	5.30
Magnesium sulphate, 7H2O	7.00
Calcium chloride	0.100
Final pH (at 25°C) : 7.5 ± 0.2	

Directions :

Suspend 37.1gms of PART B in 1000 ml. distilled water. Heat if necessary to dissolve the medium completely. This is seawater (artificial). Add 28 gms of PART A. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle :

Marine life represents a vast resource, providing food, medicine, and raw materials. It is also a source of halophilic bacteria. These bacteria contribute to the spoilage of marine fish and shellfish. Halophilic bacteria have complex ionic requirements and may require Mg++ and K+ in addition to sodium chloride for growth and proteolytic activity. Sea Water Agar is formulated as recommended by APHA for cultivation of marine microorganisms from sea foods.
Part B composition acts as synthetic sea water to create conducive growth atmosphere. Yeast extract, beef extract and peptic digest of animal tissue provide nitrogenous compounds, vitamin B complex and other essential growth nutrients.

QC Tests – (I)Dehydrated Medium			
	Colour :	Part A- Cream to yellow Part B-White to cream	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	7.3 ± 0.2 to 7.7 ± 0.2 of complete medium(Part A+B)	
	Colour (post autoclaving/heating) :	Yellow	
	Clarity (post autoclaving/heating) :	Slightly opalescent gel	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after 18-24 hrs at 35-37 °C.		
	MICROORGANISM (ATCC)	GROWTH	
	Vibrio cholerae (ATCC15748) Vibrio parahaemolyticus (ATCC 11344)	Luxuriant none-poor	

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 :	For cultivation of marine microorganisms.
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
B839	65.1g/l	7.68 L	7.3 ± 0.2 to 7.7 ± 0.2 of complete medium(Part A+B)	NIL	121^0C / 15 minutes

Rev: December 2020