

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, 6H ₂ O		5.30				
Magnesium sulphate, 7H ₂ O		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)		Luxuriant				
Vibrio parahaemolyticus (ATCC 11344)		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°C / 15 minutes

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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