BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B613	**ZOBELL MARINE AGAR**
Formula	
Ingredients :	**gms/lit.**
Peptone	5.00
Yeast extract	1.00
Ferric citrate	0.10
Sodium chloride	19.45
Magnesium chloride	8.80
Sodium sulphate	3.24
Calcium chloride	1.80
Potassium chloride	0.55
Sodium bicarbonate	0.16
Potassium bromide	0.08
Strontium chloride	0.034
Boric acid	0.022
Sodium silicate	0.004
Sodium fluorate	0.0024
Ammonium nitrate	0.0016
Disodium phosphate	0.008
Agar	15.00
Final pH (at 25°C) : 7.6 ± 0.2	

Directions :

Suspend 55.25 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and Pour in sterile Petri plates.

Principle :

This medium consists not only of minerals as sea water but also has peptone and yeast extract as the better sources of nutrients for the marine bacteria. Agar is the solidifying agent. Marine bacteria are of prime importance in food industry and marine life conservation and hence activity of these bacteria can be studied by the use of this medium.

QC Tests – (I)Dehydrated Medium		
Colour :		Cream to yellow
Appearance :		Homogeneous Free Flowing powder
(II)Rehydrated medium		
pH (post autoclaving/heating) :		7.6 ± 0.2
Colour (post autoclaving/heating) :		Yellow
Clarity (post autoclaving/heating) :		Opalescent
(III)Q.C. Test Microbiological		
Cultural characteristics observed after an incubation at 20-25°C for 40-72 hours .		
MICROORGANISM (ATCC)	GROWTH	
Vibrio fischeri (7744)	Good –luxuriant	
Vibrio harveyi (14126)	Good –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 :	For cultivation, isolation and enumeration of heterotrophic marine bacteria.
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
B613	55.25 g/l	9.04 L	7.6 ± 0.2	Nil	121^0C/15 min.