BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B246	MALONATE BR	OTH					
Formula							
Ingredients : gms/lit.							
Ammonium sulphate 2.00							
Dipotassium phosphate 0.60							
Monopotassium phosphate 0.40							
Sodium chloride		2.00					
Sodium malonate							
Bromo thymol blue 0.025							
Final pH (at 25°C) : 6.7 <u>+</u> 0.2							
Directions :							
Dissolve 8.02 grams in 1000 ml distilled water. Dispense and sterilize by autoclaving at 15 lbs pressure							
(121°C) for 15 minutes. Avoid the addition of carbon and nitrogen from other sources.							
Principle :							
Malonate Broth contains Ammonium Sulfate, which is the sole source of nitrogen in the medium; Sodium							
Malonate is the sole source of carbon. Dipotassium Phosphate and Monopotassium Phosphate provide							
buffering capability Sodium Chloride maintains the osmotic balance of the medium. Increased alkalinity							
resulting from malonate utilization causes the indicator, Bromo Thymol Blue, to change colour from green							
to blue.							
QC Tests - (I)D	ehydrated Medi	um					
Colour :	Colour :			Light green			
Appearance :			Homogeneous Free Flowing powder				
(II)Rehydrated medium							
pH (post autoclaving/heating) :			6.7 ± 0.2				
Colour (post autoclaving/heating) :			Bluish green				
Clarity (post autoclaving/heating) :			Clear				
(III) Q.C. Test Microbiological							
Cultural characteristics observed after 18- 48 hours at 35 - 37°C.							
MICROORGANISM (ATCC) G			GROWTH	VTH MALONATE UTILIZATION			
Enterobacter aerogenes (13048)			uxuriant	Positive reaction, dark blue colour			
Klebsiella pneumoniae (13883)			uxuriant	Positive reaction, dark blue colour			
Salmonella arizonae (13314)			uxuriant	Positive reaction, dark blue colour			
Salmonella typhimurium (14028) Fa			air to good	Negative reaction			
Escherichia coli (25922)			oor to fair	Negative reaction			
Precautions: 1 For Laboratory Lise							
Frecautions .	2. Follow proper established laboratory precedures in handling and dispessing of						
infectious materials							
3 IPPITANT Irritating to every respiratory system and skin. Avoid contact with skin						contact with skin	
	and over Do not broathe dust. Wear suitable protective clething. Keen container						
tightly closed. Target organ(c) : Lunge Intestines							
imitations : 1. Since the nutritional requirements of organisms vary, some strains may be							
encountered that fail to grow or grow poorly on this medium.							
Use : Recommended for differentiation of Enterobacter and Escherichia on the basis of						the basis of	
malonate utilization from clinical and non-clinical samples.							
Storage:	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing :	500 gm. bottle						
Product profile:	Reconstitution	Quantity	on	pH (25°C)	Supplement	Sterilization	
_		<u>Prepara</u> t	ion (500g)				
B246	8.02 g/l	62	.344 L	6.7 ± 0.2	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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