BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B247 MALONATE BROTH, EWING MODIFIED					
Formula					
		ms/lit.			
Yeast extract 1.00					
Dextrose 0.25					
Ammonium sulphate 2.00					
Dipotassium phosphate 0.60					
Monopotassium phosphate 0.40					
Sodium chloride 2.00					
Sodium malonate 3.00					
Bromo thymol blue 0.025		,			
Final pH (at 25°C): 6.7 ± 0.2					
Directions :	<u> </u>				
Dissolve 9.28 gr	ams in 1000 ml. distilled	d water. Disp	ense and sterilize by autoclavir	ng at 15 lbs pressure	
			and nitrogen from other sources		
Principle :			<u> </u>		
Yeast Extract and Dextrose provide the vitamins and cofactors, as well as minimal sources of carbon,					
required for good growth of a wide variety of organisms. An organism that can utilize Sodium Malonate as					
its carbon source while at the same time using Ammonium Sulfate as its nitrogen source causes increased					
alkalinity due to the formation of sodium hydroxide. This causes the indicator, Bromo Thymol Blue, to					
change colour from green to blue. Some malonate – negative strains produce a yellow colour. This is due					
to fermentation of the dextrose alone, peoducing increased acidity that causes the indicator to turn yellow					
			um Phosphate provide buffering		
Chloride maintai	ns the osmotic balance o	f the medium			
QC Tests - (I)Dehydrated Medium					
Colour :		Light yellov	Light yellow to Light green		
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium			personal recommendation of the second		
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.					
		GROWTH	MALONATE UTILIZATION		
		Luxuriant	+ (Dark blue colour)		
		Luxuriant	+ (Dark blue colour)		
Salmonella arizonae (13314)		Luxuriant	+ (Dark blue colour)		
Salmonella typhimurium (14028)		Luxuriant	- (Dark blue colour)		
		Luxuriant	_		
Precautions:	1. For Laboratory Use.				
i i ccautions .	Follow proper, established laboratory procedures in handling and disposing of				
	infectious materials.				
	3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin				
İ	and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container				
land eyes. Do not breathe dust, wear suitable protective clothing. Keep container					

tightly closed. Target organ(s): Lungs, Intestines.

Preparation (500g) 53.879L

Quantity on

encountered that fail to grow or grow poorly on this medium.

1. Since the nutritional requirements of organisms vary, some strains may be

pH (25°C)

 6.7 ± 0.2 nil

Supplement

For differentiation of Enterobacteriaceae based on malonate utilization. Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.

Refer disclaimer Overleaf

Product profile: Reconstitution

500 gm. bottle

9.28g/l

Limitations :

Use:

B247

Storage: Packing:

Sterilization

121°C / 15 minutes

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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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