

TECHNICAL SHEET

B246	MALONATE BROTH					
Formula						
Ingredients :		gms/lit.				
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 :						
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) Dehydrated Medium						
	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)	GROWTH	MALONATE UTILIZATION			
	Enterobacter aerogenes (13048)	Luxuriant	Positive reaction, dark blue colour			
	Klebsiella pneumoniae (13883)	Luxuriant	Positive reaction, dark blue colour			
	Salmonella arizonae (13314)	Luxuriant	Positive reaction, dark blue colour			
	Salmonella typhimurium (14028)	Fair to good	Negative reaction			
	Escherichia coli (25922)	Poor to fair	Negative reaction			
Precautions :		1. For Laboratory Use.				
		2. 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 and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Lungs, Intestines.				
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 :		Recommended for differentiation of Enterobacter and Escherichia on 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 Preparation (500g)	pH (25°C)	Supplement	Sterilization
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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