

TECHNICAL SHEET

B161	MOELLER DECARBOXYLASE BROTH BASE			
Formula				
Ingredients :		gms/lit.		
Peptic digest of animal tissue		5.00		
Meat Extract B#		5.00		
Dextrose		0.50		
Bromo cresol purple		0.01		
Cresol red		0.005		
Pyridoxal		0.005		
#- Equivalent to Beef extract				
Final pH (at 25°C): 6.0 ± 0.2				
Directions :				
Suspend 10.52 grams in 1000 ml distilled water. Add 10 gm. of L-Lysine, L-Arginine, L-Ornithine or other L-amino acids. When using DL-amino acids, use 2% concentration. Heat if necessary, to dissolve the medium completely. When L-Ornithine is added, readjustment of the pH is required. Dispense in 5 ml amount in screw-capped tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes.				
Principle :				
This medium contains Meat Extract B and peptic digest of animal tissue which provide nitrogenous nutrients for the growth of bacteria. Dextrose is the fermentable carbohydrate and pyridoxal is the co-factor for the decarboxylase enzyme. Bromo cresol purple and cresol red are the pH indicators in this medium. Inoculated tubes must be protected from air with a layer of sterile mineral oil. Exposure to air may cause alkalization at the surface of the medium which makes the test invalid.				
QC Tests - (I) Dehydrated Medium				
Colour :		Light yellow to greenish yellow		
Appearance :		Homogeneous Free Flowing powder		
(II) Rehydrated medium				
pH (post autoclaving/heating) :		6.0 ± 0.2		
Colour (post autoclaving/heating) :		Purple		
Clarity (post autoclaving/heating) :		Clear		
(III) Q.C. Test Microbiological				
Cultural characteristics observed after an incubation at 35-37°C for upto 4 days with addition of appropriate amino acids and overlaying with sterile mineral oil.				
MICROORGANISM (ATCC)	LYSINE	ARGININE	ORNITHINE	
Citrobacter freundii (8090)	-	±	±	
Enterobacter aerogenes (13048)	+	-	+	
Escherichia coli (25922)	±	±	±	
Klebsiella pneumoniae (13883)	+	-	-	
Proteus vulgaris (13315)	-	-	-	
Proteus mirabilis (25933)	-	-	+	
Pseudomonas aeruginosa (9027)	-	+	-	
Salmonella paratyphi A	-	(+) or +	+	
Salmonella typhi (6539)	+	(+) or -	-	
Shigella flexneri (12022)	-	- or (+)	-	
Shigella sonnei (25931)	-	±	+	
Shigella dysenteriae (13313)	-	- or (+)	-	
Serratia marcescens (8100)	+	-	+	
Key : + = positive reaction, purple colour - = negative reaction, yellow or no colour change ± = variable (+) = delayed positive reaction				

TECHNICAL SHEET

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 :	Moeller Decarboxylase Broth Base with the addition of appropriate L-amino acid, is used to differentiate bacteria on the basis of their ability to decarboxylate the amino acids.				
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
B161	10.52g/l	47.528L	6.0 ± 0.2	NIL	121°C / 10 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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.