

**TECHNICAL SHEET**

<b>B161</b>	<b>MOELLER DECARBOXYLASE BROTH BASE</b>			
<b>Formula</b>				
<b>Ingredients :</b>		<b>gms/lit.</b>		
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				
<b>Directions :</b>				
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.				
<b>Principle :</b>				
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.				
<b>QC Tests - (I) Dehydrated Medium</b>				
Colour :		Light yellow to greenish yellow		
Appearance :		Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>				
pH (post autoclaving/heating) :		6.0 ± 0.2		
Colour (post autoclaving/heating) :		Purple		
Clarity (post autoclaving/heating) :		Clear		
<b>(III) Q.C. Test Microbiological</b>				
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				

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<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	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.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B161</b>	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.

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