

**BIOMARK Laboratories-INDIA**  
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**TECHNICAL SHEET**

<b>B367</b>		<b>MUELLER HINTON BROTH</b>			
<b>Formula</b>					
<b>Ingredients :</b>		<b>Gms/lit.</b>			
Meat, infusion from#		300.00			
Casein acid hydrolysate		17.50			
Starch		1.50			
#- Equivalent to Beef, infusion from					
Final pH (at 25°C) : 7.3± 0.1					
<b>Directions :</b>					
Suspend 21 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well before pouring. It is suggested to boil the medium before autoclaving to avoid settling of starch at the bottom.					
<b>Principle :</b>					
Meat infusion and casein acid hydrolysate provide nitrogenous compounds, carbon, sulphur and other essential nutrients. Starch acts as a protective colloid against toxic substances present in the medium. Starch hydrolysis yields dextrose, which serves as a source of energy.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Cream to yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.3 ± 0.1			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18- 24 hours at 35-37°C.					
MICROORGANISM (ATCC )		GROWTH			
Escherichia coli (25922)		good-luxuriant			
Pseudomonas aeruginosa (27853)		good-luxuriant			
Staphylococcus aureus (25923)		good-luxuriant			
Enterococcus faecalis (19433)		good-luxuriant			
<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 in this medium.			
<b>Use :</b>		It is recommended to determine the susceptibility of bacteria to sulphonamides by the tube dilution method. Also used for primary isolation of gonococci and meningococci.			
<b>Storage :</b>		Dehydrated medium -below 30°C Prepared medium – Between 2 to 8°C. Use freshly prepared medium.			
<b>Packing :</b>		500 gm. bottle			
<b>Product profile:</b>		Reconstitution		Quantity on Preparation (500g)	
		pH (25°C)		Supplement	
		Sterilization			
<b>B367</b>		21g/l		23.80L	
		7.3 ± 0.1		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 BIOMARK LABORATORIES publications.

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