

TECHNICAL SHEET

B367	MUELLER HINTON BROTH	
Formula		
Ingredients :		Gms/lit.
Beef, infusion from		300.00
Casein acid hydrolysate		17.50
Starch		1.50
Final pH (at 25°C) :		7.3 ± 0.1
Directions :		
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.		
Principle :		
Beef 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.		
QC Tests – (I) Dehydrated Medium		
Colour :	Cream to yellow	
Appearance :	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
pH (post autoclaving/heating) :	7.3 ± 0.1	
Colour (post autoclaving/heating) :	Light amber	
Clarity (post autoclaving/heating) :	Clear	
(III) Q.C. Test Microbiological		
Cultural characteristics observed after 18- 24 hours at 35-37°C.		
MICROORGANISM (ATCC)	GROWTH	
Escherichia coli (25922)	good-luxuriant	
Neisseria gonorrhoeae (49226)	good-luxuriant	
Pseudomonas aeruginosa (77853)	good-luxuriant	
Staphylococcus aureus (25923)	good-luxuriant	
Streptococcus faecalis (19433)	good-luxuriant	
Haemophilus influenzae (49247)	good-luxuriant (in Mueller Hinton Chocolate Broth)	
Streptococcus pneumoniae (6305)	good-luxuriant (in Mueller Hinton Blood Broth)	
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

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Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly in this medium.				
Use :	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.				
Storage :	Dehydrated medium -below 30°C Prepared medium – Between 2 to 8°C. Use freshly prepared medium.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B367	21g/l	23.80L	7.3 ± 0.1	NIL	121°C / 15 minutes