

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B639</b>	<b>MUELLER HINTON AGAR NO.2</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein acid hydrolysate		17.50			
Meat heart infusion#		2.00			
Starch, soluble		1.50			
Agar		17.00			
#-Equivalent to Beef heart infusion					
Final pH (at 25°C) : 7.4± 0.1					
<b>Directions :</b>					
Suspend 38.0 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.					
<b>Principle :</b>					
Meat heart infusion and casein acid hydrolysate provide nitrogenous compounds, carbon, sulphur and other essential nutrients. Starch is added to absorb any toxic substances present in the medium. Agar is the solidifying agent.					
<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) :		7.4 ± 0.1			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 - 24 hours at 35-37°C.					
MICROORGANISM (ATCC )		GROWTH			
Escherichia coli (25922)		Luxuriant			
Staphylococcus aureus (25923)		Luxuriant			
Pseudomonas aeruginosa (27853)		Luxuriant			
Streptococcus pneumoniae (6305)		Luxuriant*			
Haemophilus influenzae (49247)		Good – Luxuriant***			
Neisseria gonorrhoeae (49226)		Luxuriant			
Enterococcus faecalis (29212)		Luxuriant			
Key : * = growth on Mueller Hinton Blood Agar					
*** = growth on Mueller Hinton Chocolate Agar					
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. This medium is recommended for susceptibility testing of pure cultures only. 2. Inoculum density may effect the zone size. Heavy inoculum may result in smaller zones or too less inoculum may result in bigger zones 3. Fastidious organisms may not grow on this medium and may require supplementation of blood. 4. Fastidious anaerobes may not grow on this medium. 5. As antimicrobial susceptibility is carried with antibiotic disc, proper storage of the disc is desired which may effect the potency of the disc. 6. Under certain circumstances, the in vitro results of antibiotic susceptibility may not show the same in vivo				
<b>Use:</b>	For testing susceptibility of common and rapidly growing bacteria using antimicrobial discs by the Bauer - Kirby method. Manufactured to contain low levels of thymine, thymidine, calcium and magnesium.				
<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>B639</b>	38g/l	13.157L	7.4 ± 0.1	NIL	121°C / 15 minutes

Refer disclaimer Overleaf

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**Disclaimer:**

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