# **BIOMARK Laboratories-INDIA**

# www.biomarklabs.com

## **TECHNICAL SHEET**

B263 MUELLER HINT	TON AGA	R			
Formula					
Ingredients :	gms	/lit.			
Meat, infusion from#	300	.00			
Casein acid hydrolysate	17.5	50			
Starch	1.5	1.50			
Agar	17.	00			
# Equivalent to beef, infusion form	1				
Final pH (at 25°C) :7.3 <u>+</u> 0.1					
Directions :					
Suspend 38.0 grams in 1000 ml					
completely. Sterilize by autoclavin		bs pressure (121°C) for	15 minutes. Cool to 45-50°C.		
Mix well and pour into sterile Petri					
Note: The performance of this ba					
(formerly, NCCLS) document M6-p	rotocols f	or Evaluating Dehydrated	Mueller Hinton Agar.		
Principle:					
Meat, infusion from and casein ac					
and other essential nutrients. St					
medium. Different factors influ					
concentration, agar depth, disc p		medium pH and beta –	lactamase production by test		
organisms. Agar is the solidifying					
QC Tests – (I)Dehydrated Media		Crosm to vollow			
Appearance :		Cream to yellow Homogeneous Free Flowing powder			
(II)Rehydrated medium		Homogeneous Free Flowin	g powdei		
pH (post autoclaving/heatin	a) .	7.3 ± 0.1			
Colour (post autoclaving/heatin	J,	Light amber			
Clarity (post autoclaving/he		Slightly opalescent			
(III) Q.C. Test Microbiological	auriy).	Silguity opalescent			
Cultural characteristics obse	erved afte	r 18- 24 hours at 36-37°C	`		
MICROORGANISM (ATCC )		GROWTH	<u>,                                      </u>		
Escherichia coli (25922)		Luxuriant			
Pseudomonas aeruginosa (2		Luxuriant			
Staphylococcus aureus (259		Luxuriant			
Enterococcus faecalis(29212		Luxuriant			
Enterococcus faecalis(29212	-,	Lazariant	<del> </del>		

Luxuriant

Luxuriant

2. Follow proper, established laboratory procedures in handling and disposing of

infectious materials.

Refer disclaimer Overleaf

(43300) Precautions:

Escherichia coli (35218)

Staphylococcus aureus subsp. aureus

1. For Laboratory Use.

Page 01 of 02

Rev: January 2025

## **BIOMARK Laboratories-INDIA**

## www.biomarklabs.com

## **TECHNICAL SHEET**

Limitations :		ritional requirements			s may be		
	encountered that fail to grow or grow poorly on this medium.						
	2. Numerous factors can affect results; inoculum size, rate of growth, medium formulation of pH, length of incubation and incubation environment, disk content and drug diffusion rate, and measurement of endpoints. Therefore, strict adherence to						
				. Therefore, stric	t adherence to		
		red to ensure reliable					
		susceptibility testing					
		result from the prolo					
	4. Media containing excessive amounts of thymidine or thymine can reverse the inhibitory effects of sulfonamides and trimethoprim, causing zones of growth inhibition to						
			l trimethoprim	n, causing zones o	f growth inhibition to		
	be smaller or les						
		ne concentration of di					
	affects results of aminoglycoside, tetracycline, and colistin tests with P. aeruginosa						
	isolates. A cation content that is too high reduces zones sizes, whereas a cation content						
		as the opposite effect					
	6. When Mueller Hinton Medium is supplemented with blood, the Zone of inhibition for						
	oxacillin and methicillin may be 2 to 3 mm smaller than those obtained with						
	unsupplemented agar. Conversely, sheep blood may markedly increase the zone						
					erococci. Sheep blood		
	may cause indistinct zones or a film of growth within the zones of inhibition around						
		l trimethoprim disks.					
	7. Mueller Hinton Medium deeper than 4 mm may cause false – resistant results, and						
		mm deep may be associated with a false –suceptibility report.					
					ibility test results. If		
	the pH is too low, aminoglycosides and macrolides will appear to lose potency; others						
	may appear to have excessive activity. The opposite effects are possible if the pH is too high.  9. When Mueller Hinton Medium is inoculated, no droplets of moisture should be visible on the surface or on the petri dish cover.  10. Mueller Hinton Medium should be inoculated within 15 minutes after the inoculum suspension has been adjusted.						
	11. The zone of inhibition diameters of some drugs, such as the aminoglycosides, macrolides, and tetracyclines, are significantly altered by CO <sub>2</sub> Plates should not be incubated in increased CO <sub>2</sub> .						
	12. This medium is recommended for susceptibility testing of pure cultures only.						
Use:	For cultivation of Neisseria and for determination of susceptibility of microorganisms to						
	antimicrobial ag						
Storage :	Dehydrated medium -below 30°C Prepared medium - Between 2 to 8°C.						
Packing:	500 gm. bottle						
Product profile:		Quantity on	pH (25°C)	Supplement	Sterilization		
Product profile:	Reconstitution	Preparation (500g)					
			pH (25°C) 7.3 ± 0.1	Supplement NIL	Sterilization  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 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.