

<b>SB004</b>	<b>Mueller Hinton Agar</b>
<b>Formula</b>	
<b>Ingredients:</b>	<b>gms/lit.</b>
Meat, infusion from#	300.00
Casein acid hydrolysate	17.50
Starch	1.50
Agar	17.00
<b>Directions:</b>	
Mueller Hinton Agar is a ready to use solid media in glass bottle. The medium is pre-sterilized; hence it does not need sterilization. Medium in the bottle can be melted either by using a pre-heated water bath or any other method. Slightly loosen the cap before melting. When complete melting of medium is observed dispense the medium as desired and allowed to solidify.	
<b>Principle:</b>	
Meat, infusion from 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. Mueller Hinton Agar is now used as a test medium for antimicrobial susceptibility testing. MHA is recommended for the diffusion of antimicrobial agents impregnated on paper disc through an agar gel as described in CLSI approved Standard. Different factors influence the disc diffusion susceptibility tests as, inoculum concentration, agar depth, disc potency, medium pH and beta - lactamase production by test organisms. A standardized suspension of the organism is swabbed over the entire surface of the medium. Paper discs impregnated with specific amounts of antimicrobial agents are then placed on the surface of the medium, incubated and zones of inhibition around each disc are measured. The susceptibility is determined by comparing with CLSI standards. Mueller Hinton Agar is not appropriate for assay by disc diffusion method with slow growing organisms, anaerobes and capnophiles. With slow growing organisms, increased incubation may cause deterioration of diffusing antibiotic and produce unprecise readings.	
<b>(I) QC Tests</b>	
pH:	7.3 ± 0.2
Color:	Light Amber colored medium
Appearance:	Sterile Mueller Hinton Agar in in glass bottle.
<b>(II) Sterility test</b>	Passes release criteria
<b>(III) Q.C. Test Microbiological</b>	
Cultural characteristics observed after incubation at 35-37°C for 18-24 hours.	
MICROORGANISM (ATCC)	GROWTH
Escherichia coli 25922	luxuriant
Staphylococcus aureus 25923	luxuriant
Pseudomonas aeruginosa 27853	luxuriant
Enterococcus faecalis 29212	luxuriant
Neisseria gonorrhoeae 49226	luxuriant
Escherichia coli 35218	luxuriant
Staphylococcus aureus subsp. aureus 43300	luxuriant

Refer disclaimer Overleaf

**BIOMARK Laboratories-INDIA**[www.biomarklabs.com](http://www.biomarklabs.com)**TECHNICAL SHEET**

<b>Precautions :</b>	1. In Vitro diagnostic use only. 2. Read the label before opening the container
<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. 2. This medium is recommended for susceptibility testing of pure cultures only.
<b>Use:</b>	For the determination of susceptibility microorganisms to antimicrobial agents.
<b>Storage:</b>	Store between 15-25°C. Use before expiry date on the label.
<b>Packing:</b>	100 ml/500ml of medium in sterile glass bottle.

**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.

Page 02 of 02