SB004	Mueller Hinton Agar
Formula	
Ingredients:	**gms/lit.**
Meat, infusion from#	300.00
Casein acid hydrolysate	17.50
Starch	1.50
Agar	17.00

Directions:

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.

Principle:

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.

(I) QC Tests		
	pH:	7.3 ± 0.2
	Color:	Light Amber colored medium
	Appearance:	Sterile Mueller Hinton Agar in in glass bottle.
(II)Sterility test		Passes release criteria
(III)Q.C. Test Microbiological		
	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

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