

**TECHNICAL SHEET**

<b>PP016</b>	<b>Mueller Hinton Agar Plate</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	17.0
Final pH (at 25°C): 7.3± 0.2	
<b>Directions:</b>	
Label the ready to use plate (PP016). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.	
<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. 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 coloured medium
Appearance:	Sterile Mueller Hinton Agar in 90X15 mm disposable plates.
<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

<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.
<b>Use:</b>	For the determination of susceptibility microorganisms to antimicrobial agents.
<b>Storage:</b>	Store between 2-8°C. Use before expiry date on the label.
<b>Packing:</b>	10/20/50 disposable plates.

**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.

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