

<b>B1807</b>	<b>Mueller Hinton Agar 2% Glucose w/ Methylene blue</b>				
<b>Formula</b>					
<b>Ingredients :</b>	<b>Gms /lit.</b>				
Meat, infusion from	300.00				
Casein acid hydrolysate	17.50				
Starch	1.50				
Dextrose (Glucose)	20.00				
Methylene blue	0.005				
Agar	17.00				
Final pH (at 25°C) :7.3± 0.1					
<b>Directions :</b>					
Suspend 58.0 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri Plates.					
<b>Principle :</b>					
Meat, infusion from and casein acid hydrolysate provide nitrogenous compounds, carbon, sulphur and other essential nutrients. Starch acts as a protective colloid against toxic substances present in the medium. Starch hydrolysis yields dextrose, which serves as a source of energy. Dextrose (Glucose) serves as an energy source for fungal cultures while Methylene blue enhances zone edge definition.					
<b>QC Tests – (I)Dehydrated Medium</b>					
	Colour :	Light yellow to yellow may have slight blue tinge			
	Appearance :	Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
	pH (post autoclaving/heating) :	7.3 ± 0.1			
	Colour (post autoclaving/heating) :	Light amber with greenish tinge			
	Clarity (post autoclaving/heating) :	Slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
	A luxuriant growth of test organisms was observed on Mueller Hinton Agar, Modified (as per CLSI for antifungal) in 24-48 hours at 33-37°C along with inhibition zones with respective antibiotic concentrations				
	MICROORGANISM (ATCC )	GROWTH	Amphotericin B (100units)	Amphotericin B (20 mcg)	Amphotericin B (50 mcg)
	Candida albicans ATCC 10231	Luxuriant	10 -18 mm	10 -16 mm	30 -40 mm
	Saccharomyces cerevisiae ATCC 9763	Luxuriant	11 -18 mm	8 -12 mm	29 -38 mm
<b>Precautions :</b>	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				

Refer disclaimer Overleaf

**TECHNICAL SHEET**

<b>Limitations :</b>	1. This medium is recommended for susceptibility testing of pure cultures only.				
	2. Inoculum density may affect the zone size. Heavy inoculum may result in smaller zones or bigger zones.				
	3. Fastidious organisms may not grow on this medium due to nutritional variations.				
	4. Antifungal disc are used to carry out the susceptibility, proper storage of the disc is desired of the disc				
	5. Under certain circumstances, the in vitro results of antifungal susceptibility may not show the same in vivo.				
<b>Use:</b>	Recommended for performing antifungal disc diffusion susceptibility of yeasts. .				
<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>B1807</b>	58g/l	8.620 L	7.3 ± 0.1	NIL	121 <sup>0</sup> 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.

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