



Hy Laboratories Ltd.

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AGAR PLATE MULLER HINTON AGAR

PD035 AGAR PLATE MULLER HINTON AGAR, 90 mm Petri dish with media.

PD037 MUELLER HINTON AGAR +DEF.SHEEP BLOOD, 90 mm Petri dish with media.

Appearance: PD035: light amber; PD037: Cherry

Intended Use and Principles of the Producer-Muller Hinton Agar is used for antimicrobial disc diffusion susceptibility test for common and rapidly growing bacteria. Muller Hinton Agar contains low levels of Thymine and Thymidine and controlled levels of Calcium and Magnesium.

Application-

Beef extract and Acid hydrolysate of casein supply amino acids and other substances, minerals, vitamins, Carbon and nutrients. For toxic substances that may be present in the medium, Starch acts as a protective colloid. Hydrolysis of Starch during autoclave procedure provides a small amount of Dextrose. The method for this product uses discs which contain a known concentration of antimicrobial agent. The diameters of the clearing zone around the disc correlate with minimal inhibitory concentrations (MIC). Test includes a standardized suspense of the organism which is then swabbed all over the surface of the plate. Then, paper discs of antibiotic or other antimicrobial agent are placed on the surface of the plate, the plate is incubated and zones of clearing around each disc are measured. The result will be then compared to those determined by the current CLSI document in order to determine if the organism is susceptible, intermediate or resistant to the agent tested.

Formula (per Liter): Muller Hinton agar (38gr): Beef extract (2gr), Acid Hydrolysate of Casein (17.5gr), Starch (1.5gr), Agar (17gr).

PD037 will addition of Def. - Sheep blood 5%

pH Range: 7.2 - 7.4



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QC performance

Test	ATCC NO	Incubation Temp. (°C)	Incubation Cond.	Reaction 1	Antibiotic 1	Antibiotic 2	Antibiotic 3	Antibiotic 4	Antibiotic 5	Antibiotic 6
<i>Pseudomonas aeruginosa</i>	27853	33-37 °C	Aerobic, 18 hours	Sensitive	IMP 25	ERTA 18	CAZ 25	TOBR 24		
<i>Escherichia coli</i>	25922	33-37 °C	Aerobic, 18 hours	Sensitive	SXT 29	AMP 20	NAL 26	TC 25	CAZ 29	
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 18 hours	Sensitive	SXT 28	OX 20	PEN 35	TC 25	ER 25	VAN 19
<i>Enterococcus faecalis</i>	29212	33-37 °C	Aerobic, 18 hours	Sensitive	SXT 30					
<i>Staphylococcus epidermidis</i>	12228	33-37 °C	Aerobic, 18 hours	Good						
<i>Staphylococcus epidermidis</i>	31874	33-37 °C	Aerobic, 18 hours	Good						



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Storage (°C): 2-8

Warning and Precautions-

For laboratory use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Do not use the product beyond its expiry date