



## CERTIFICATE OF ANALYSIS, QUALITY AND CONFORMITY

<b>Product Name: Mannitol Salt Agar</b>	
<b>Product Code: DM160H</b>	<b>Expiry Date: 25/05/2023</b>
<b>Lot Number : 02970518</b>	<b>Release Date: 25/05/2018</b>
<b>Analytical Report Number : QAD/AR-18/05-482</b>	<b>Page No: 1 of 3</b>

<b>DEHYDRATED MEDIUM</b>			
<b>TEST CONDUCTED</b>	<b>SPECIFICATION</b>	<b>OBSERVATIONS</b>	<b>REMARKS</b>
Color	Light yellow to pink colored powder	Light yellow to pink colored powder	Complies
Consistency	Homogenous, free flowing powder	Homogenous, free flowing powder	Complies
<b>PREPARED MEDIUM</b>			
<b>TEST CONDUCTED</b>	<b>SPECIFICATION</b>	<b>OBSERVATIONS</b>	<b>REMARKS</b>
Color of medium	Red colored	Red colored	Complies
Clarity of medium (After sterilization)	Clear to slightly opalescent gel forms in petri plates	Clear to slightly opalescent gel formed in petri plates	Complies
pH (After sterilization)	7.20-7.60 at 25°C	7.24	Complies
Gel strength	Firm as compared to 1.5% Agar gel	Firm as compared to 1.5% Agar gel	Complies
<b>Growth Promotion Test</b>	Growth Promotion was carried out in accordance with the harmonized method of USP/EP/BP/JP, after incubation at 30-35°C for 24-48 hours. Recovery rate is considered as 100% for bacteria growth on Soybean Casein Digest Agar.		
<b>Growth promoting properties</b>	Growth of microorganism comparable to that previously obtained with previously tested and approved lot of medium occurs at the specified temperature for not more than the shortest period of time specified, inoculating $\leq 100$ cfu (at 30-35°C for $\leq 24$ hours).		
<b>Indicative properties</b>	Colonies are comparable in appearance and indication reaction to those previously obtained with previously tested and approved lot of medium occurs for the specified temperature for a period of time within the range specified inoculating $\leq 100$ cfu (at 30-35°C for 18-72 hours).		
<b>Inhibitory properties</b>	No growth of the test microorganism occurs for the specified temp for not less than longest period of time specified inoculating $\geq 1000$ cfu (at least 1000cfu) (at 30-35°C for $\geq 72$ hours).		



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**CULTURAL PARAMETERS:** Recovery rate is considered as 100% for bacteria when grown on Soyabean Casein Digest Agar (DM247).

Organisms	Incubation time/ temp	No. of organisms inoculated	No. of organisms recovered	Percentage Recovery	Growth	Colour of colony	Remarks
<i>Staphylococcus aureus</i> ATCC 6538	30-35°C/ 18-72 hrs	68	59	86%	Luxuriant	Yellow/white colonies surrounded by yellow zone	Complies
<i>Escherichia coli</i> ATCC 8739	30-35°C/ 18-72 hrs	$\geq 10^3$	0	0%	Inhibited	--	Complies
<i>Staphylococcus aureus</i> ATCC 25923	30-35°C/ 18-72 hrs	87	72	82%	Luxuriant	Yellow/White colonies surrounded by yellow zone	Complies
<i>Staphylococcus epidermidis</i> ATCC 12228	30-35°C/ 18-72 hrs	75	35	46%	Fair - good	Red	Complies
<i>Staphylococcus epidermidis</i> ATCC 14990	30-35°C/ 18-72 hrs	78	32	41%	Fair - good	Red	Complies
<i>Proteus mirabilis</i> ATCC 12453	30-35°C/ 18-72 hrs	75	5	6%	None-poor	Yellow	Complies
<i>Escherichia coli</i> ATCC 25922	30-35°C/ 18-72 hrs	$\geq 10^3$	0	0%	Inhibited	--	Complies
<i>Escherichia coli</i> NCTC 9002	30-35°C/ 18-72 hrs	$\geq 10^3$	0	0%	Inhibited	--	Complies
<i>Escherichia coli</i> ATCC 8739	30-35°C/ 18-72 hrs	$\geq 10^3$	0	0%	Inhibited	---	Complies
<i>Enterobacter aerogenes</i> ATCC 13048	30-35°C/ 18-72 hrs	$\geq 10^3$	0	0%	Inhibited	--	Complies






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### Final Results: **COMPLIES**

This is to certify that this lot passes and it conforms to the above mentioned tests and specifications.

		
<b>TESTED BY</b> (Madhura Kadam) MICROBIOLOGIST	<b>CHECKED BY</b> (Aditi Modak) HEAD MICROBIOLOGY	<b>APPROVED BY</b> (Rupali Sabale) HEAD QUALITY ASSURANCE

End Of The Report