



Certificate of Analysis

Becton Dickinson and Company
 BD Diagnostic Systems
 PO Box 999
 Sparks MD 21152-0999 US

Product Name : Bottle Mannitol Salt Agar BBL 500G
Catalog Number : 211407 **Manufacture Date** : 2016/10/04
Batch Number : 6291710
Expiration Date : 2020/09/30

01. Dehydrated Medium Powder Appearance: Fine, homogeneous, free of extraneous material and may contain many light to dark red flecks
02. Solubility (111g/L): Soluble in distilled or deionized water on boiling.
03. Prepared Plate Appearance: Medium to dark, red to rose; clear to slightly hazy
04. USP/JP/EP performance specifications where applicable

CULTURE	ATCC®	INOC	RESULT	TEMP	INCUBATION
Staphylococcus aureus	6538	<100 CFUs	growth*	30-35°C	18 Hrs
			yellow zones*	30-35°C	48-72 Hrs
Escherichia coli	8739	>100 CFUs	no growth*	30-35°C	72 Hrs

* Growth results above are comparable to a previously released batch.
05. Biological Performance: Medium was prepared per label directions. Plates were inoculated with the test organisms, incubated at 33-37°C for 42-48 hours and gave cultural responses as indicated:

CULTURE	ATCC®	RESULT
Proteus mirabilis	12453	Partial to complete inhibition
Staphylococcus aureus	25923	Light to heavy growth, yellow zones at 48 hours
Staphylococcus epidermidis	12228	Light to heavy growth, red zones at 48 hours

Characteristic	Unit	Value	Lower Limit	Upper Limit
pH at 25°C :		7.4	7.2	7.6
Bulk Lot Number :	-	6252834		

Animal source	Country of Origin	Tissue Category		
		BIC	SIC	ABC
Bovine	New Zealand	IV	IV	MLK
Bovine	USA	II	II	IB
Bovine	USA	III	III	IB
Bovine	USA	III	IV	IC
Bovine	USA	IV	IV	IB
Equine	Mexico	II	II	IB
Equine	Mexico	IV	IV	IB
Porcine	Canada	IV	IV	IB
Porcine	USA	II	II	IB
Porcine	USA	III	III	IB
Porcine	USA	IV	IV	IB



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The Batch Number on this certificate is synonymous with the Lot Number shown on the product label.

BD Diagnostics - Diagnostic Systems products are manufactured in ISO 9001:2008 Registered facilities. In addition, BD Diagnostics - Diagnostic Systems facilities are registered with the United States Food and Drug Administration (FDA), are regulated by the FDA's Quality System Regulations (QSRs), and are also ISO 13485:2003 Registered. This product met BDDS stringent quality standards at time of batch/lot release. Any test results reported on this certificate were obtained at time of release. This material is not for human or animal consumption.

BD Diagnostics - Diagnostic Systems' Certificates of Analysis (COA) typically contain animal origin information when products are manufactured using materials of animal origin. This information may be contained in the animal source table and/or in one or more of the additional paragraphs found on the COA. Following Quality Control release, the COA is created and published at <http://www.bd.com/regdocs>. For each batch of finished product that contains animal origin raw materials, the COA shows the animal origin data from the individual lots of animal origin raw materials used, as provided by the raw material suppliers.

At times, suppliers notify BD Diagnostics - Diagnostic Systems of new and/or additional information they have received from their raw material suppliers that modifies the animal origin information for lots previously provided to BD. See "COA Animal Origin Information Position Statement" located at <http://www.bd.com/regdocs> under "Position Statements" for the impact that retrospective information has on COAs and on customers enrolled in the BDDS and BDAB Automated Change Notification Program.

For complete details on animal origin information, refer to "BD Position Statement - BD Diagnostic-Diagnostic Systems, COA Animal Origin Information Position Statement", at <http://www.bd.com/regdocs> under "Position Statements".

Manufacturer is Becton Dickinson and Company, 7 Loveton Circle, Sparks, MD 21152 USA. To determine location of manufacturing for this product, please see www.bd.com/ds/technicalCenter/regulatory.asp.

Stability data for this product is on file.

The pH stated was obtained at the time of release, and the pH may vary within the stated range depending on the age of the product and the type of pH meter and probe used.



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Charlotte Dannenfelser
BD Life Sciences - Diagnostic Systems
Quality Director, Microbiology
Signature Date: 2016/12/01