



Certificate of Analysis

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

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Product Name : Bottle Mannitol Salt Agar BBL 500G
Catalog Number : 211407 **Manufacture Date** : 2016/04/22
Batch Number : 6201598
Expiration Date : 2020/03/31

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 : | | 7.3 | 7.2 | 7.6 |
| Bulk Lot Number : | - | 6096622 | | |

| 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 |

Creation Date: 2016/08/09 16:55:51



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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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A handwritten signature in black ink that reads "Charlotte Dannenfelser". The signature is fluid and cursive, with a long horizontal stroke at the end.

Charlotte Dannenfelser
BD Life Sciences - Diagnostic Systems
Quality Director, Microbiology
Signature Date: 2016/08/09