



Certificate of Analysis

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

Product Name : Bottle Tryptic Soy Agar 500G
Catalog Number : 236950 **Manufacture Date**: 2018/01/05
Batch Number : 8032542
Expiration Date : 2022/12/31

01. Dehydrated Medium Appearance: Light beige, free-flowing, homogeneous
02. Solubility: 4.0% solution, soluble in distilled or deionized water on boiling
03. Solution Appearance: Light amber, slightly to moderately opalescent
04. Plate Appearance: Clear to slightly opalescent, without precipitate
05. CAMP Test: Streptococcus agalactiae ATCC® 12386 gave a + reaction and Streptococcus pyogenes ATCC® 19615 gave a - reaction when tested with Staphylococcus aureus ATCC® 33862.
06. USP/EP/JP Growth Promotion test performance specification where applicable.

| TEST ORGANISMS | ATCC® | INOC | RECOVERY | TEMP | INCUBATION |
|--------------------------|-------|-----------|----------|---------|--------------|
| Aspergillus brasiliensis | 16404 | <100 CFUs | growth | 30-35°C | Up to 5 days |
| Bacillus subtilis | 6633 | <100 CFUs | growth | 30-35°C | Up to 3 days |
| Candida albicans | 10231 | <100 CFUs | growth | 30-35°C | Up to 5 days |
| Escherichia coli | 8739 | <100 CFUs | growth | 30-35°C | Up to 3 days |
| Pseudomonas aeruginosa | 9027 | <100 CFUs | growth | 30-35°C | Up to 3 days |
| Salmonella typhimurium | 14028 | <100 CFUs | growth | 30-35°C | Up to 3 days |
| Staphylococcus aureus | 6538 | <100 CFUs | growth | 30-35°C | Up to 3 days |

07. Cultural Response: Medium was prepared per label instructions. Plates with and without 5% sheep blood (SB) were inoculated with the test organisms and incubated under 5-10% CO2 at 35 ± 2°C for 18-48 hours.

| TEST ORGANISMS | ATCC® | RECOVERY | HEMOLYSIS |
|--------------------------|-------|----------|-----------|
| | | PLAIN | w/SB |
| Escherichia coli | 25922 | good | good |
| Neisseria meningitidis | 13090 | good | good |
| Staphylococcus aureus | 25923 | good | good |
| Streptococcus pneumoniae | 6305 | good | good |
| Streptococcus pyogenes | 19615 | good | good |

| Characteristic | Unit | Value | Lower Limit | Upper Limit |
|-------------------|------|---------|-------------|-------------|
| pH at 25°C : | | 7.3 | 7.1 | 7.5 |
| Bulk Lot Number : | - | 8003886 | | |

| Animal source | Country of Origin | Tissue Category | | |
|---------------|-------------------|-----------------|-----|-----|
| | | BIC | SIC | ABC |
| Bovine | New Zealand | IV | IV | MLK |



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| | | | | |
|---------|-----|-----|-----|----|
| Porcine | USA | III | III | IB |
|---------|-----|-----|-----|----|

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.



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Charlotte Dannenfelser
BD Life Sciences - Diagnostic Systems
Quality Director, Microbiology
Signature Date:2018/02/14