



# Certificate of Analysis

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

**Product Name** : Bottle Bacto TSB Casein Med 500G  
**Catalog Number** : 211825 **Manufacture Date**: 2018/02/01  
**Batch Number** : 8045565  
**Expiration Date** : 2022/12/31

- 01. Dehydrated Medium Appearance: Light beige, free-flowing, homogeneous
- 02. Solubility: 3% solution, soluble in distilled or deionized water
- 03. Solution Appearance: Light amber, clear
- 04. Medium was tested per European (EP), Japan (JP), and United States Pharmacopeia (USP) Growth Promotion requirements. Tubes were inoculated with < 100 CFUs. Tubes were incubated aerobically for 3 days and up to 5 days for (\*) organisms and gave cultural responses as indicated.

| TEST ORGANISMS             | ATCC® | RECOVERY | TEMPERATURE      | INCUBATION   |
|----------------------------|-------|----------|------------------|--------------|
| *Asperigillus brasiliensis | 16404 | growth   | 20-25°C          | Up to 5 days |
| Bacillus subtilis          | 6633  | growth   | 30-35°C, 20-25°C | Up to 3 days |
| *Candida albicans          | 10231 | growth   | 20-25°C          | Up to 5 days |
| Escherichia coli           | 8739  | growth   | 30-35°C          | Up to 3 days |
| Pseudomonas aeruginosa     | 9027  | growth   | 30-35°C          | Up to 3 days |
| Salmonella typhimurium     | 14028 | growth   | 30-35°C          | Up to 3 days |
| Staphylococcus aureus      | 6538  | growth   | 30-35°C          | Up to 3 days |

- 05. Cultural Response: Medium was prepared per label instructions. Tubes were inoculated with the test organisms and incubated at the temperatures specified for 18-48 hours, or up to 72 hours if necessary.

| TEST ORGANISMS             | ATCC® | TEMPERATURE | RECOVERY     |
|----------------------------|-------|-------------|--------------|
| Neisseria meningitidis     | 13090 | 30-35°C     | fair to good |
| Staphylococcus epidermidis | 12228 | 30-35°C     | good         |
| Streptococcus pneumoniae   | 6305  | 30-35°C     | good         |
| Streptococcus pyogenes     | 19615 | 30-35°C     | good         |

- 06. Residual Solvents (CPMP/ICH/283/95): Typical Analysis for Tryptic Soy Broth indicates that there is less than 5000 ppm of Acetone. No other solvents were detected during analysis.

| Characteristic    | Unit | Value   | Lower Limit | Upper Limit |
|-------------------|------|---------|-------------|-------------|
| Loss on Drying :  | %    | 2       | 0           | 5           |
| pH at 25°C :      |      | 7.4     | 7.1         | 7.5         |
| Bulk Lot Number : | -    | 8009562 |             |             |

| Animal source | Country of Origin | Tissue Category |     |     |
|---------------|-------------------|-----------------|-----|-----|
|               |                   | BIC             | SIC | ABC |
| Bovine        | New Zealand       | IV              | IV  | MLK |
| Porcine       | USA               | III             | III | 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](http://www.bd.com/ds/technicalCenter/regulatory.asp).



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BD Life Sciences - Diagnostic Systems  
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Signature Date:2018/02/26