

## TRYPTONE (7351)

### Intended Use

Tryptone is an enzymatic digest of casein for use in preparing microbiological culture media.

### Product Summary and Explanation

Tryptone is an enzymatic digest of casein used as a nitrogen source in culture media. Casein is the main protein of milk, and a rich source of amino-acid nitrogen. Tryptone is rich in tryptophane, making it valuable for use in detecting indole production. The absence of detectable levels of carbohydrates in Tryptone makes it a suitable peptone in differentiating bacteria on the basis of their ability to ferment various carbohydrates.

Several media containing Tryptone are specified in standard methods for multiple applications.<sup>1-4</sup>

### Principles of the Procedure

Tryptone provides nitrogen, amino acids, and vitamins in microbiological culture media.

### Precaution

1. For Laboratory Use.

### Quality Control Specifications

**Dehydrated Appearance:** Powder is homogeneous, free-flowing and beige.

**Prepared Appearance (2% wt/vol):** Prepared medium is brilliant to clear, yellow, with no to light precipitate.

**pH (2% Solution at 25°C):**  $7.1 \pm 0.2$

### Microbiology

**Growth supporting properties as:** Peptone Agar: Satisfactory

**Microbial Count:**  $\leq 1000$  cfu / g

### Test Procedure

Refer to appropriate references for specific procedures using Tryptone.<sup>1-4</sup>

### Results

Refer to appropriate references for test results.

### Storage

Store sealed bottle containing Tryptone at 2 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

### Expiration

Refer to expiration date stamped on container. Tryptone should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to Tryptone in its intact container when stored as directed.

### Packaging

|          |          |       |       |
|----------|----------|-------|-------|
| Tryptone | Code No. | 7351A | 500 g |
|          |          | 7351B | 2 kg  |
|          |          | 7351C | 10 kg |

### References

1. **Vanderzant, C., and D. F. Splittstoesser (eds.).** 1992. Compendium of methods for the microbiological examination of food, 3<sup>rd</sup> ed. American Public Health Association, Washington, D.C.
2. **[www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalManualBAM/default.htm](http://www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalManualBAM/default.htm).**
3. **Eaton, A. D., L. S. Clesceri, and A. E. Greenberg (eds.).** 1995. Standard methods for the examination of water and wastewater, 9<sup>th</sup> ed. American Public Health Association, Washington, D.C.
4. **Marshall, R. T. (ed.).** 1993. Standard methods for the examination of dairy products, 16<sup>th</sup> ed. American Public Health Association, Washington, D.C.

### Technical Information

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)372-2006.