TRYPTOSE (7693)

Intended Use
Tryptose is an enzymatic digest of protein for use in preparing microbiological culture media.

Product Summary and Explanation
Tryptose was developed while studying growth requirements of *Brucella* spp. Huddleson found Tryptose media to be equal or superior to meat infusion media, providing uniformity for the cultivation and differentiation of fastidious organisms.[1] Casman reported that a medium consisting of 2% Tryptose, along with other media ingredients, equaled fresh beef infusion base with respect to organism growth.[2,3]

Tryptose is recommended in broth and agar formulations, and when used in media containing blood to permit hemolytic reactions. Tryptose is used in the preparation of Tryptose Broth (Product Code No. 7367) and Tryptose Blood Agar Base (Product Code No. 7282). Tryptose media are recommended in standard methods for food testing.[4]

Principles of the Procedure
Tryptose is a mixed enzymatic hydrolysate with rich nutritional value for microbiological culture media. The enzymatic hydrolysis of this peptone permits the preservation of vitamins and amino acids.

Precautions
1. For Laboratory Use.

Quality Control Specifications
Dehydrated Appearance: Powder is homogeneous, free flowing, and light beige.

Appearance of 1% Solution: Solution is amber, clear with or without a light precipitate.

pH (1% Solution): 7.0 ± 0.2 @ 25°C.

Microbiology
Growth Supporting Properties As:

Peptone Agar: Satisfactory

Microbial Count: ≤ 1000 cfu/g

Recovery of *Micromonosporum echinospora* ATCC 27932 (G-418 production):

Peptone Agar: Satisfactory; orange colony color within four days.

Test Procedure
Refer to appropriate references for a complete discussion on the use of Tryptose.

Results
Refer to appropriate references for results.

Storage
Store sealed bottle containing the dehydrated medium 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 the container. The dehydrated medium should be discarded if not free flowing, or if appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitation of the Procedure

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Packaging

Tryptose	**Code No.**	**7693A**	**500 g**
		7693B	**2 kg**
		7693C	**10 kg**

References

1. **Huddleson, I. F.** 1943. Brucellosis in man and animals. Rev. Ed. The Commonwealth Fund, New York.
2. **Casman, E. P.** 1942. A dehydrated medium to supplement meat infusion as a base for blood agar. J. Bacteriol. **43:**33.
3. **Casman, E. P.** 1947. A noninfusion blood agar base for neisseriae, pneumococci, and streptococci. Am. J. Clin. Pathol. **17:**281-289.
4. **www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalmanualBAM/default.htm.**

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.