

## Tryptose

**SKU: 700003392, 700003393, 700003394, 700003395**  
**NCM0146**

### Intended Use

Tryptose is an enzymatic digest of protein for use in preparing microbiological culture media in a laboratory setting. Tryptose is not intended for use in the diagnosis of disease or other conditions in humans.

### Description

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 including *Neisseria gonorrhoeae*, *Streptococcus milleri* and *Brucella* spp.. Casman reported that a medium consisting of 2% Tryptose, along with other media ingredients, equaled fresh beef infusion base with respect to organism growth.

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. 400000795). Tryptose media are recommended in standard methods for food testing.

### Precaution

Refer to SDS

### Test Procedure

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

### Typical Specifications

PHYSICAL/CHEMISTRY	EXPECTED RESULTS
Appearance of Powder:	Light beige, homogenous, free-flowing
pH (2% solution):	6.8-7.2
<b>MICROBIOLOGY:</b>	
Microbial Count:	< 1000 cfu/g
2% Peptone Agar or Broth:	
<i>E. coli</i> ATCC® 25922	Satisfactory recovery of 10-100 cfu
<i>S. aureus</i> ATCC® 25923	Satisfactory recovery of 10-100 cfu
<i>M. echinospora</i> ATCC® 27932	4Q Streak; orange colony color within four days

### Results

Refer to appropriate references for results.

### 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.

## **Storage**

Store dehydrated culture media at 2-30°C away from direct sunlight. 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.

## **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](http://www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalmanualBAM/default.htm).