TRYPTOSE AGAR (7347)

Intended Use
Tryptose Agar is used for the cultivation of *Brucella* spp. and other fastidious microorganisms.

Product Summary and Explanation
Tryptose Agar is recommended for the cultivation and isolation of pathogenic and saprophytic bacteria, especially *Brucella* as specified by Huddleson and Castaneda.[1,2] Huddleson found Tryptose media to be equal or superior to meat infusion media, providing uniformity for the cultivation and differentiation of fastidious organisms.[1] The successful isolation of *Brucella* spp. supports the use of Tryptose media as a rich general purpose media. Tryptose Agar is prepared with Tryptose, which is a mixed enzymatic hydrolysate with rich nutritional value for microbiological culture media. The enzymatic hydrolysis of Tryptose permits the preservation of vitamins and amino acids.

Tryptose Agar is specified in the Compendium of Methods for the Microbiological Examination of Foods.[3] Tryptose media are recommended in the FDA Bacteriological Analytical Manual for serological testing.[4]

Principles of the Procedure
The nitrogen, vitamins, and carbon sources are provided by Tryptose in Tryptose Agar. Dextrose is the carbohydrate source. Sodium Chloride maintains the osmotic environment. Agar is the solidification agent.

Formula / Liter
Tryptose ..... 20 g
Dextrose..... 1 g
Sodium Chloride ..... 5 g
Agar ..... 15 g
Final pH: 7.2 ± 0.2 at 25°C
Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precautions
1. For Laboratory Use.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

Directions
1. Suspend 41 g of the medium in one liter of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121°C for 15 minutes.

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

Prepared Appearance: Prepared medium is trace to slightly hazy and yellow-beige.

Expected Cultural Response: Cultural response on Tryptose Agar at the appropriate atmosphere and temperature, and examined for growth at 24 – 72 hours incubation.

Microorganism	Approx. Inoculum (CFU)	Response
Brucella ovis ATCC® 25840	10 - 300	Growth
Neisseria meningitidis ATCC® 13090	10 - 300	Growth
Streptococcus pneumoniae ATCC® 6305	10 - 300	Growth
Streptococcus pyogenes ATCC® 19615	10 - 300	Growth

The organisms listed are the minimum that should be used for quality control testing.

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

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.

Limitations of the Procedure
1. Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Packaging

Tryptose Agar	**Code No.**	**7347A**	**500 g**
		7347B	**2 kg**
		7347C	**10 kg**

References

1. **Huddleson, I. F.** 1943. Brucellosis in man and animals. Rev. Ed. The Commonwealth Fund, New York.
2. **Castaneda.** 1947. **Proc. Soc. Exp. Biol. Med. 64:**114.
3. **Downes and Ito** (eds.). 2001. Compendium of methods for the microbiological examination of foods. 4th ed. American Public Health Association, Washington. D.C.
4. **Harmon, S. M., D. A. Kautter, D. A. Golden, and E. J. Rhodehamel.** 1995. FDA Bacteriological analytical manual, 8th ed. AOAC International, Arlington, VA.

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.

NEOGEN CORPORATION
620 Lesher Place, Lansing MI 48912
517/372-9200 • 800/783-3212 • fax: 800/875-8563
neogen-info@neogen.com • www.neogen.com