# T4407 Tryptose Broth

Tryptose Broth is recommended for the isolation, cultivation and differentiation primarily of *Brucella,* but also of Streptococci, Pneumococci and Meningococci.

**Composition:**

| Ingredients | Grams/Litre |
|---|---|
| Tryptose | 20.0 |
| Dextrose | 1.0 |
| Sodium Chloride | 5.0 |
| Final pH 7.3 +/- 0.2 at 25°C | |

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Yellow colored, homogenous, free flowing powder.
Color and Clarity: Basal medium yields a clear to slightly opalescent solution.

**Directions:**
Dissolve 26 g of Tryptose Broth in 1000 ml of distilled water. Heat to boiling to dissolve the media completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. Mix well and dispense as desired.

**Principle and Interpretation:**
This media is made without infusion of beef and is recommended for the cultivation of pathogenic and saprophytic bacteria. The presence of dextrose enhances the growth of *some Brucella* species and acts as the source of energy. Tryptose serves as the nitrogen source, while sodium chloride maintains osmotic equilibrium.

Cultural characteristics after 48-72 hours at 35-37°C under 10% $CO_2$.

| Organisms (ATCC) | Growth |
|---|---|
| *Brucella abortus* (4315) | +++ |
| *Brucella melitensis* (4309) | +++ |
| *Brucella suis* (4314) | +++ |
| *Streptococcus pneumoniae* (6303) | +++ |
| *Streptococcus pyogenes* (19615) | +++ |

References:

1. Compendium of Methods for the Microbiological Examination of Foods, (1984). Speck, M. ed. 2nd Edition. APHA Inc. Washington, D.C.
2. American Type Culture Collection, Manassas, Va., U.S.A.
3. Huddleson 1939, Brucellosis in Man and Animals Oxford Univ. Press, Oxford, U.K.

**Precautions and Disclaimer**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.