T2313 Tryptose Agar

Tryptose Agar is recommended with or without the addition of blood or other substances 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
Agar	15.0
Final pH 7.2 +/- 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.
Gelling: Firm
Color and Clarity: Light yellow colored, clear to slightly opalescent gel forms in petri plates.

Directions:
Dissolve 41 g of Tryptose Agar 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. For blood media, aseptically add 5% v/v sterile defibrinated blood after tryptose agar cools to 50°C. 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 addition of dextrose enhances the growth of some *Brucella* species. Dextrose is the source of energy. Tryptose serves as the nitrogen source, while sodium chloride maintains osmotic equilibrium. Blood Agar may be prepared by adding 5% v/v sterile defibrinated blood to the molten sterile Tryptose Agar.

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.

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.