



Tryptose Serum Broth Base (Modified Newings Tryptose Broth M2019 Base)

Recommended for routine identification of Mycoplasma species.

Composition**	
Ingredients	Gms / Litre
Tryptose	20.000
Sodium chloride	5.000
Anhydrous disodium phosphate	2.500
**Formula adjusted, standardized to suit performance parameters	

Directions

Suspend 27.50 grams in 1000 ml distilled water containing 5 ml glycerol. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Aseptically add the rehydrated contents of one vial of Mycoplasma Selective Supplement (FD334) and 130 ml of pig serum (RM10415) (Inactivate at 56°C for not more than 30 minutes). Mix well and distribute into sterile tubes or flasks as desired.

Principle And Interpretation

Tryptose Serum Broth Base demonstrated by Newing & McLeod, 1958 was later modified by Gourlay (1964). This medium is as described by Davies (1).

This medium is recommended for the cultivation of *Mycoplasma*. The medium ingredients and all the supplements should be free of any toxic substances even in small amounts. Many *Mycoplasma* require serum for their good growth and also presence of antibiotic is necessary to prevent the growth of contaminating organisms. Mostly the *Mycoplasma* species are aerobic or facultatively anaerobic but some are microaerophilic. Few are anaerobic saprophytic *Mycoplasma* which grow best at 22-35°C while pathogenic strains grow at 35°C.

Tryptose serves as a source of nitrogeneous and carbonaceous compounds, long chain amino acids, vitamins and other growth nutrients. Sodium chloride maintains osmotic balance. Dextrose serves as an energy source. Yeast extract provides vitamins especially Group B Vitamins. Glycerol serves as a carbon sorce. Penicillin G and thallium acetate inhibits contaminating flora. Pig serum provides good growth.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured clear solution in tubes

Reaction

Reaction of 2.1% w/v aqueous solution at 25°C. pH : 7.8±0.2

Cultural Response

Cultural characteristics observed in presence of 10% Carbon dioxide with added Pig serum (RM10415), inactivated at 56°C for not more than 30 minutes and Mycoplasma Selective Supplement(FD334), after an incubation at 22-35°C for 48 hours.

Cultural Response

Organism	Growth
Cultural Response	
Mycoplasma bovis ATCC	good-luxuriant
25523	
Mycoplasma gallinarium	good-luxuriant
ATCC 19708	

Mycoplasma pneumoniaegood-luxuriantATCC 15531Streptococcus pneumoniaegood-luxuriantATCC 6303Good-luxuriantATCC 6303

Storage and Shelf Life

Store below 30°C in tightly closed container. Use freshly prepared medium. Use before expiry period on the label.

Reference

1. Davis,G and W.C.S.Read; J.Hyg., Camb. (1968, A modification of the growth-inhibition test and its use for detecting Mycoplasma mycoides var.mycoides

Revision : 00 / 2016

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia[™] publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia[™] Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. A-516,Swastik Disha Business Park,Via Vadhani Ind. Est., LBS Marg, Mumbai-400086, India. Customer care No.: 022-6147 1919 Email: techhelp@himedialabs.com Website: www.himedialabs.com