

TM 2402 – TRYPTOSE BROTH, W/ THIAMINE HCl

INTENDED USE

For the cultivation and differentiation of fastidious microorganisms in an infusion free medium.

PRODUCT SUMMARY AND EXPLANATION

Huddleson used Tryptose media for the isolation of *Brucella* species from man. Tryptose containing media, rather than the conventionally used meat infusion media have been used for the enumeration and isolation of *Brucella* species. Addition of thiamine to tryptose media enhanced the recovery of *Brucella* species especially *Brucella suis*.

This medium can be used as general purpose medium for cultivation of wide variety of organisms. It can also be supplemented with defibrinated blood (sheep, horse) to prepare blood containing medium for the isolation of fastidious organisms like *Brucella*. Tryptose Broth with thiamine HCl is recommended by APHA and Diagnostic Procedures and Reagents for the isolation and cultivation of *Brucella* species and also *Streptococci*, *Meningococci*, *Pneumococci* and other pathogenic bacteria.

COMPOSITION

Ingredients	Gms / Ltr
Tryptose	20.000
Dextrose	1.000
Sodium chloride	5.000
Thiamine hydrochloride	0.005

PRINCIPLE

Dextrose is the source of energy. Tryptose serves as nitrogen source while sodium chloride maintains osmotic equilibrium.

INSTRUCTION FOR USE

- Suspend 26 grams in 1000 ml distilled water. If desired, add 0.5-1% agar to the medium.
- Heat to boiling to dissolve the media completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- For blood media, aseptically add 5% v/v sterile defibrinated blood.
- Mix well and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder
Appearance of prepared medium	: Yellow coloured clear to slightly opalescent Solution. After addition of 5% v/v sterile defibrinated blood: cherry red coloured opaque solution forms in tubes.
pH (at 25°C)	: 7.2±0.2

INTERPRETATION

Cultural characteristics observed after incubation with added 5% v/v sterile defibrinated blood.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period



<i>Brucella melitensis</i>	4309	50-100	Good-luxuriant	35-37°C	48-72 Hours
<i>Brucella suis</i>	4314	50-100	Good-luxuriant	35-37°C	48-72 Hours
<i>Streptococcus pneumoniae</i>	6303	50-100	Good-luxuriant	35-37°C	48-72 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Good-luxuriant	35-37°C	48-72 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.













Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

- Huddleson I. F., 1943, Brucellosis in man and animals, rev., Ed., The Commonwealth Fund, New York, N.Y.
- Ruiz Castañeda M., 1947, Proc. Soc. Exp. Biol. Med., 64:114.
- Huddleson I. F., 1939, Brucellosis in Man and Animals, Oxford University Press, Oxford, England.
- McCullough W. G., Mills R. L., Herbst E. J., Roessler W. J. and Brewer C. R., 1947, J. Bacteriol., 53:5.
- Atlas R. M., 2004, Handbook of Microbiological Media, Lawrence C. Parks, (Ed.), 3rd Edition, CRC Press.
- Standard Methods for the Microbiological Examination of Dairy Products, 9th Ed., 1948, APHA Inc., New York.
- Diagnostic Procedures and Reagents, 1950, 3rd Edition, APHA, New York.
- MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MedNet GmbH Birkstrasse 10, 48163 Münster, Germany	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**



Revision: 08 Nov., 2019

