

TM 472 - TRYPTOSE AGAR

INTENDED USE

For isolation, cultivation and differentiation of *Brucella* and also for Streptococci, Meningococci and other pathogenic bacteria.

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.

Tryptose Agar is also recommended by APHA and FDA. This medium can be used as general purpose media for cultivation of wide variety of organisms. It can also be supplemented with defibrinated blood (sheep, horse) to prepare blood agar for the isolation of fastidious organisms like *Brucella*.

COMPOSITION

Ingredients	Gms / Ltr
Tryptose	20.000
Sodium chloride	5.000
Agar	15.000
Dextrose	1.000

PRINCIPLE

Dextrose is the source of energy. Tryptose serves as nitrogen source while sodium chloride maintains osmotic equilibrium. Blood Agar may be prepared by adding 5%v/v sterile defibrinated blood to molten sterile Tryptose Agar at 50°C.

INSTRUCTION FOR USE

- Dissolve 41 grams in 1000 ml distilled water.
- 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	: Basal Medium: Yellow coloured, clear to slightly opalescent gel. With addition of 5% v/v sterile defibrinated blood, cherry red coloured opaque gel forms in Petri plates.
pH (at 25°C)	: 7.2 ± 0.2

INTERPRETATION

Cultural characteristics observed after addition of 5% v/v sterile defibrinated blood in presence of 10% Carbon dioxide.

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



<i>Brucella melitensis</i>	4309	50-100	Good-luxuriant	>=50%	35-37°C	48-72 Hours
<i>Brucella suis</i>	4314	50-100	Good-luxuriant	>=50%	35-37°C	48-72 Hours
<i>Streptococcus pneumoniae</i>	6303	50-100	Good-luxuriant	>=50%	35-37°C	48-72 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Good-luxuriant	>=50%	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.
- Downes F. P. and Ito K., (Ed.), 2001, Compendium of Methods for the Microbiological Examination of Foods. 4th Ed. American Public Health Association, Washington, D.C.
- U.S. Food and Drug Administration, 1995, Bacteriological Analytical Manual, 8th Ed., AOAC International, Gaithersburg,

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Barkstrasse 10, 48163 Muenster, Germany</small>	 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

