TM 476 – TRYPTOSE BROTH

INTENDED USE

For cultivation of *Brucella* species microorganisms and determining the haemolytic reactions.

PRODUCT SUMMARY AND EXPLANATION

Huddleson used Tryptose broth 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 Broth 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 containing medium for the isolation of fastidious organisms like *Brucella*. Tryptose Broth can be supplemented with 0.1% agar for the cultivation of anaerobes.

COMPOSITION

Ingredients	Gms / Ltr
Tryptose	20.000
Sodium chloride	5.000
Dextrose	1.000

PRINCIPLE

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

INSTRUCTION FOR USE

- Dissolve 26 grams in 1000 ml distilled water.
- If desired, add 0.5 - 1% agar to the medium.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder

Appearance of prepared medium : Yellow coloured, clear to slightly opalescent gel. With addition of 5% v/v sterile defibrinated blood, cherry red coloured opaque gel forms.

pH (at 25°C) : 7.3 ± 0.2

INTERPRETATION

Cultural characteristics observed after an incubation with added 5% v/v sterile defibrinated blood in presence of 10% Carbon dioxide (CO_2).

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

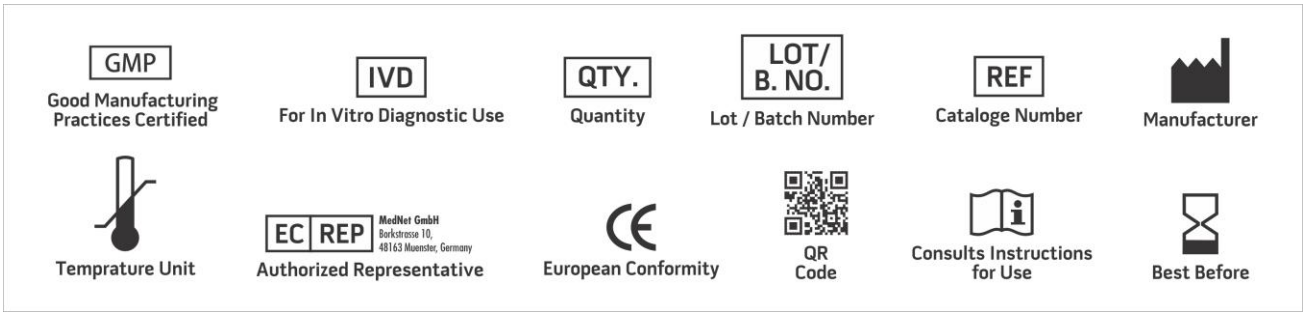
Brucella melitensis	4309	50-100	Good-luxuriant	35-37°C	48-72 Hours
Brucella suis	4314	50-100	Good-luxuriant	35-37°C	48-72 Hours
Streptococcus pneumoniae	6303	50-100	Good-luxuriant	35-37°C	48-72 Hours
Streptococcus pyogenes	19615	50-100	Good-luxuriant	35-37°C	48-72 Hours

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
1. Huddleson I. F., 1943, Brucellosis in man and animals, rev., Ed., The Commonwealth Fund, New York, N.Y.
2. Ruiz Castañeda M., 1947, Proc. Soc. Exp. Biol. Med., 64:114.
3. Huddleson I. F., 1939, Brucellosis in Man and Animals, Oxford University Press, Oxford, England.
4. 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.
5. U.S. Food and Drug Administration, 1995, Bacteriological Analytical Manual, 8th Ed., AOAC International, Gaithersburg, Md



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

***For Lab Use Only**
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