

CM 20996 – LIVER INFUSION BROTH

INTENDED USE

For cultivation of *Brucella* and other anaerobic bacteria.

PRODUCT SUMMARY AND EXPLANATION

Brucella, a gram-negative intracellular parasite causes epizootic abortions in animals and septicemic febrile illness or localized infection of bone, tissue or organ systems in humans. *Brucella* species are the causative agents of Brucellosis, a zoonotic disease with a domestic animal reservoir. Tryptose Agar with 5% serum remains the media of choice for isolation of *Brucella* species. However, the growth is highly enhanced when grown on Liver infusion media. Half strength Liver Infusion Broth can be used for the isolation of *Entamoeba histolytica*.

COMPOSITION

Ingredients	Gms / Ltr
Beef liver, infusion from	500.000
Proteose peptone	10.000
Sodium chloride	5.000

PRINCIPLE

This medium contains Beef liver, infusion from and proteose peptone which provide the nitrogen, amino acids, vitamins and carbon sources which permit luxuriant growth of *Brucella* and other fastidious pathogens. Sodium chloride maintains the osmotic balance. The reducing substances present in Beef Liver infusion create an anaerobic environment, which satisfies the requirements of even fastidious anaerobes. *Brucella* species are highly infectious and extreme care should be taken while handling the cultures.

INSTRUCTION FOR USE

Dissolve 35.0 grams in 1000 ml distilled water.

Heat if necessary to dissolve the medium completely.

Dispense into sterile tubes or flasks as desired and Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow to brownish yellow homogeneous free flowing powder.
Appearance of prepared medium	: Amber coloured clear solution in tubes.
pH (at 25°C)	: 6.9 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation (*Clostridium* species incubate anaerobically).

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
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Brucella melitensis	4309	50-100	Luxuriant	35-37°C	24-48 Hours
Brucella suis	4314	50-100	Luxuriant	35-37°C	24-48 Hours
Streptococcus mitis	9811	50-100	Luxuriant	35-37°C	24-48 Hours
Clostridium sporogenes	11437	50-100	Luxuriant	35-37°C	24-48 Hours

PACKAGING:

In pack size of 100 gm and 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. Cleveland L. R. and Sanders E. P., 1930, Arch. Protietenkd. 70:223.
2. Forbes B. A., Sahm A. S., and Weissfeld D. F., Bailey & Scotts Diagnostic Microbiology, 10th Ed., 1998, Mosby, Inc., St. Louis, Mo.
3. Moyer N. P. and Holcomb L. A., 1988, Brucellosis, p. 143-154, In Balows A., Hausler W. J., Jr. Ohashi M. and Turano A. (Eds.), Laboratory Diagnosis and Infectious Diseases: Principle and Practice, Vol. I., Springer-Verlag, New York.
4. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
5. Smith, L. D. and Fiecht T. A., 1990, Pathogenesis of Brucella. Crit. Rev. Microbiol., 17: 209-230.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MedNet GmbH Birkstrasse 10, 48143 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



