

CM 21,442 – POTATO INFUSION BROTH

INTENDED USE

For the isolation of Brucella species.

PRODUCT SUMMARY AND EXPLANATION

Brucella is a strictly aerobic, gram-negative coccobacillus which causes Brucellosis. This organism is sometimes carried by animals and only causes incidental infections in humans. Infection usually occurs due to consumption of contaminated milk, meat or direct contact. Potato Infusion Agar is used for the isolation of Brucella species. It is also used for the cultivation of Brucella species in large scale for antigen and vaccine preparation. This medium enables Brucella species to form typical colonies when isolated from infected materials.

COMPOSITION

Ingredients	Gms / Ltr
Potatoes, infusion from	200.000
Peptone	10.000
Beef extract	5.000
Dextrose	10.000
Sodium chloride	5.000

PRINCIPLE

This medium consists of infusion of potato, beef extract and peptic digest of animal tissue which provide necessary nutrients required for the growth of Brucella. Dextrose serves as source of energy and sodium chloride maintains the osmotic equilibrium of the medium.

INSTRUCTION FOR USE

Dissolve 34.0 grams in 1000 ml distilled water containing 20 ml glycerol.

Heat if necessary to dissolve the medium completely.

Dispense into tubes or flasks or as desired.

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 forms in Petri plates.
pH (at 25°C)	: 6.8 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
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Streptococcus pneumoniae	6303	50-100	Luxuriant	35-37°C	24-72 Hours
Brucella suis	6597	50-100	Luxuriant	35-37°C	24-72 Hours
Brucella melitensis	4309	50-100	Luxuriant	35-37°C	24-72 Hours
Bordetella bronchiseptica	4617	50-100	Luxuriant	35-37°C	24-72 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. Atlas R. M., 1993, Handbook of Microbiological Media, CRC Press, Inc., Boca Raton.
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
3. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MedNet GmbH Buckstrasse 10, 49163 Maastricht, 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

