Specification

Liquid culture medium for *Brucella* and other fastidious microorganisms.

Formula * in g/L

Meat peptone..... 10.00
Casein peptone..... 10.00
Sodium bisulphite..... 0.10
Dextrose..... 1.00
Yeast Extract..... 2.00
Sodium chloride..... 5.00

Final pH 7.0 ±0,2 at 25 ºC
* Adjusted and /or supplemented as required to meet performance criteria

Directions

Suspend 28 g in 1 litre of distilled water. Bring to boil and distribute into fcontainers. Sterilize by autoclaving at 121ºC for 15 minutes. If a highly selectivity add aseptically after autoclave Ref. DSHB3158 Brucella Selective Supplement.

Description

The Brucella Media are prepared from composition of the APHA's Albimi Broth used for isolation of *Brucella* species and the only difference between Broth and Agar is the solidifying agent. Both media are suitable for the isolation and cultivation of a lot of fastidious microorgan isms including *Streptococcus, Neisseria, Campylobacter* and other fastidious microorganisms, but they became selective with the addition of antibiotics like polymyxin or bacitracin or chemical inhibi tors like cycloheximide and ethyl violet. With some dyes (fuchsin and thionin) the media became differential. See the suitable reference for the technique in every case.
The addition of vitamin K (1 mg / l) and hemin (0.5 mg / l) enhalce the growth of Brucella spp.
Caution
Brucella species are classified as Biosafety Level 3 pathogens. All manipulations with live cultures and antigens must be confined to a Class III Biological Safety Cabinet. Follow proper established laboratory proce- dures in handling and disposing of infectious materials.

Technique

Proceed according to standards or standardized methods.

Quality control

Incubation temperature: 37 °C ± 1ºC **Incubation time:** 24-48 h.

Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity)

Microorganism	Growth	Remarks
Bacteroides fragilis ATTC 25285	Good	add Vit. K + Hemin
Clostridium perfringens ATCC® 13124	Good	add Vit. K + Hemin

References

· ALTON, G.G, L.M. JONES & D.E. PIETZ (1976) Las técnicas de laboratorio en la Brucelosis, 21 ed. Mono- graph no.55 FAO/WHO. Geneve. CRUICKSHANK.(1965) Medical Microbiology. 11th ed. E.S. Livingstone. Edimburgo.
· CORBEL, M.J. (Ed.) (2006) Brucelosis in humans and animals. WHO-FAO-WOAH. WHO Press. Geneva.
· ISENBERG H.D. (1992) Clinical Microbiology Proce- dures Handbook. ASM. Washington D.C. MacFADDIN J.D. (1985) Media for Isolation-cultivation- identification-maintenance of medical bacteria. William & Wilkins Baltimore MD.
· VANDERZANT, C & D.F. SPLITTSTOESSER (1992) Compendium of methods for the microbiological exami- nation of food 3rd Ed. APHA. Washington D.C.

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 ºC to 30 ºC).