Condalab

Reference: 6060 **Technical Data Sheet**

Product: **BRUCELLA SUPPLEMENT**

Specification

Selective supplement for the cultivation of Brucella in diverse clinical specimens, foods and other materials of sanitary interest.

Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials Vial with: 6 ± 2 ml	22±0.25 x 55±0.5 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	36 months	2-8 ºC

Composition

Composition (g/vial):

Natamycin	0.0250
Nalidixic acid	0.0025
Bacitracin	12,500 IU
Vancomycin	0.0100
Polymixin B sulphate	2,500 IU
Nystatin	50,000 IU

Note: Each vial is sufficient to supplement 500 ml of Brucella Agar

Reconstitute the original freeze-dried vial
by adding
1:1 solutiion, methanol:
Sterile Distilled Water.....5 ml

Description /Technique

Description:

Brucella Medium Base (Cat. 1374) is prepared according to the formula described by Jones and Brinley Morgan for the cultivation and isolation of Brucella, including fastidious types. It is a medium rich in nutritive elements and growth factors that make it adequate for the growth and isolation of Brucella spp.

Beef extract and peptone provide nitrogen, vitamins, minerals and amino acids essential for growth. Glucose is the fermentable carbohydrate providing carbon and energy. Sodium chloride supplies essential electrolytes for transport and osmotic balance. Bacteriological agar is the solidifying agent. The addition of the supplement enhances the medium's to selectivity for the growth of Brucella.

Brucella species are level 3 pathogens and cause brucellosis, a zoonotic disease. It is usually transmitted through milk, dairy products, meat and direct contact with infected animals.
It is widely used for the isolation of Brucella in highly contaminated materials, food materials and clinical samples.

Technique:

Aseptically reconstitute 1 vial with 10 ml of a solution 1:1 of ethanol/sterile distilled water. Incubate at 37 ºC for 10-15 minutes. Mix until completely dissolved and aseptically add to 500 ml Brucella Medium Base (cat. 1374) cooled to 50 ºC and if desired, add 5-10% of inactivated horse serum and 1-5% of sterile dextrose solution. Mix well and distribute into sterile containers.

Instructions for use:

Streak plate method:

- In a Petri dish, add 12-15 ml of molten agar and let it solidify.
- Inoculate 10 µl of the initial suspension and/or diluted sample.
- Extend the inoculum with a sterile loop on the agar surface.
- Incubate the plates in an inverted position at a temperature of 35±2 ºC in an atmosphere of 5-10% CO2 and observe alter 72 hours.

Quality control

Physical/Chemical control

Color : yellow pH: at 25ºC

Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely

Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented.

Distribute the complete medium, cooled to 50 ºC, into 90 mm plates

Aerobiosis. Incubation at 35 ± 2 ºC, reading after 48-72 hours

Microorganism	Growth
Stph. aureus ATCC® 25923, WDCM 00034	Inhibited
Escherichia coli ATCC® 25922, WDCM 00013	Inhibited

Sterility Control

Add 5ml of the sample to 100 ml of TSB and to 100 ml Thioglycollate.
Incubation 48 hours at 30-35 ºC and 48 hours at 20-25 ºC: NO GROWTH.
Check at 7 days after incubation in same conditions.

Bibliography

Kzudas and Mors, J.Bact. 66:502. 1953 Rennoux G. Ann. Inst. Pasteur, 87:325. 1954 Standard Methods for Examination of Diary Products. 10 th Ed. APHA, Inc. New York 1960 Smith Louis Ds. The pathogenic anaerobic Bacteria. C. Thomas Pub. Springfield, II, 1975.