

Reference: DSHB3158

A.B.E. - Technical Data Sheet

**Product: BRUCELLA SUPPLEMENT** 

# **Specification**

Selective supplement for the cultivation of Brucella in diverse veterinary, environmental, and foods samples, and other materials of sanitary interest.

#### **Presentation**

**Shelf Life** Storage 10 Freeze dried vials **Packaging Details** 2-25 °C Vial 49 months 23x60 mm glass vials, tag labelled, White plastic cap -10 vials per box. with: 10 ± 1 mL

# Composition

Composition (g/viai):	
Vancomycin	0,005
Colistin	
Nystatin	50.000 UI
Nitrofurantoin	
Amphotericin B	· · · · · · · · · · · · · · · · · · ·

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

Reconstitute the original freeze-dried vial by adding Sterile Distilled Water.....10 mL

# **Description / Technique**

### Description:

Supplement enhances the medium's selectivity for the growth of Brucella, such as Blood Agar Base N°2, TSA, and others. With the exception of Brucella ovis, Brucella species are level 3 pathogens and cause brucellosis disease, its handling requires biosafety level 3. It is usually transmitted through milk, dairy products, meat and direct contact with infected animals. Brucella ovis and other serum-dependent strains require supplementation of conventional agar media with fetal bovine serum.

Aseptically reconstitute 1 vial with 10 mL of sterile distilled water. Incubate at 37°C for 10-15 minutes. Mix until completely dissolved and aseptically add to 490 mL Blood Agar Base N°2 cooled to 45-50°C and add 5% of bovine fetal serum. Homogenize the mixture on a magnetic shaker.

### Instructions for use:

## Streak plate method:

- In a Petri dish, add 25-30 mL of molten agar and let it solidify.
- Extend the desired inoculum with a sterile loop on the agar surface.
- Incubate the plates 1-2 weeks, in an inverted position at a temperature of 37±1°C in an normal atmosphere or, in Brucella strains CO<sub>2</sub>dependents in a 5-10% CO<sub>2</sub> atmosphere.

Page 1 / 2 Revision date: 23/05/24



Reference: DSHB3158

A.B.E. - Technical Data Sheet

**Product: BRUCELLA SUPPLEMENT** 

# **Quality control**

# **Physical/Chemical control**

Color: yellow

## **Microbiological control**

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

Add 1 vial to 490 mL of medium base. DO NOT HEAT once supplemented.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Distribute the complete medium, cooled to 45-50°C, into 90 mm plates

Aerobiosis. Incubation at 37±1°C, reading after 48-72 h

Microorganism Growth

Escherichia coli ATCC® 25922, WDCM 00013 Staphylococcus aureus ATCC® 25923, WDCM 00034 Inhibited Inhibited

Add 5mL of the sample to 100 mL of TSB and to 100 mL Thioglycollate. Incubation 48 h at 30-35°C and 48 h at 20-25°C: 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.

Page 2 / 2 Revision date: 23/05/24