

Specification

Selective supplement for the isolation of *Burkholderia cepacia* in clinical, water, cosmetics and other samples.

Presentation

10 Freeze dried vials
Vial
with: 3 ± 0.1 g

Packaging Details

22±0.25 x 55±0.5 mm glass vials, tag labelled, White plastic cap - 10 vials per box.

Shelf Life

49 months

Storage

2-25 °C

Composition

Composition (g/vial):

Polymixin B Sulphate..... 300,000 IU
Gentamicin 5.00 mg
Vancomycin..... 1.25 mg.

Note: Each vial is sufficient to supplement

500 ml of *Burkholderia cepacia* Selective Agar Base USP (Cat. 2201).

Reconstitute the original
freeze-dried vial
by adding 1 vial with sterile
distilled water..... 6 ml

Description /Technique

Description:

BCSA selective supplement is added to *Burkholderia cepacia* Selective Agar Base USP (Cat. 2201) in order to obtain a complete medium suitable for the isolation of *Burkholderia cepacia* in clinical samples.

The detection of *Burkholderia cepacia* is important in water systems, particularly where the water is to be used for the preparation of pharmaceuticals and cosmetics. The organism is resistant to many commonly-used disinfectants. *Burkholderia cepacia* is an important opportunistic pathogen in urinary, abdominal, respiratory and other infections.

Technique:

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Once solidified on a flat surface, spread the plate streaking methodology or by spiral method.

Reconstitute the vial with 6 ml of sterile distilled water in aseptic conditions and add it to 500 ml of sterilized *Burkholderia cepacia* Selective Agar Base USP (Cat. 2201) cooled to 50°C.

Do not overheat once supplemented.

Once solidified on a flat surface, spread the plates by streaking methodology or by spiral method.

Incubate the plates right side up aerobically at 33-37°C for 48-72h.

(Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications, etc.)

After incubation, enumerate all the colonies that have appeared onto the surface of the agar.

Each laboratory must evaluate the results according to their specifications.

Quality control

Physical/Chemical control

Color : White-Gray pH: at 25°C

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.

Aerobiosis. Incubation at 30-35 °C. Reading at 24-48 until 72 h

According to ISO 11133 & USP Pharmacopeia

Microorganism

Burkholderia cepacea ATCC® 25416

Burkholderia cepacea ATCC® 25608

Staphylococcus aureus ATCC® 6538, WDCM 00032

Ps. aeruginosa ATCC® 9027, WDCM 00026

Burkholderia cenocepacia ATCC® BAA-245

Burkholderia multivorans ATCC® BAA-247

Sterility Control

Add 5ml of the sample to 100 ml of TSB and to 100 ml Thioglycollate.

Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

Growth

Good (≥50%) - Greenish-brown colonies with yellow halo

Good (≥50%) - Greenish-brown colonies with yellow halo

Inhibited

Inhibited

Good (≥50%). White colonies

Good (≥50%). White colonies surrounded by red zone

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