



Reference: 06-737LYO1

Scharlau Microbiology - Technical Data

Product: Selective Supplement for *Burkholderia cepacia* (BCSA)

### Specification

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

### Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials			
Vial	23x60 mm glass vials, tag labelled, White plastic cap -	49 months	2-25 °C
with: 3 ± 0.1 g	10 vials per box.		

### Composition

Composition (g/vial):		Note: Each vial is sufficient to supplement
Polymixin B Sulphate.....	300,000 IU	500 ml of medium Base for <i>Burkholderia cepacia</i>
Gentamicin .....	5.00 mg	<i>spp.</i>
Vancomycin.....	1.25 mg.	

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* Agar Base 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 steril distilled water in aseptic conditions and add it to 500 ml of sterilized BCSA Agar base 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.



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## Quality control

### Physical/Chemical control

Color : White-Gray

### 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.

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

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

According to ISO 11133 & USP Pharmacopeia

### Microorganism

*Burkholderia cepacia* ATCC® 25416

*Burkholderia cepacia* ATCC® 25608

*Staphylococcus aureus* ATCC® 6538, WDCM 00032

*Ps. aeruginosa* ATCC® 9027, WDCM 00026

*Burkholderia cenocepacia* ATCC® BAA-245

*Burkholderia multivorans* ATCC® BAA-247

### 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

### Sterility control

Add 5mL of the sample to 100 mL of TSB and to 100 mL Thioqlycollate.

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

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