

Burkholderia Cepacia Selective Agar

for isolation of Burkholderia Cepacia complex (BCC).

Cat. Number: PD565

Pkg: Polystyrene 90mm Petri dishes packaged in sleeves of 10 plates in a "breathable" cellulose bag that prevents build-up of condensation and excess moisture

Exp. Date: Printed on label and on the item

Required materials not supplied: Laboratory equipment as required.

Storage: 2-8 °C

Physical parameters

Pink red - orange

Ph: 6.5-7.1

Composition per 1 Liter

Casein peptone 10gr; Lactose 10gr; Sucrose 10gr; Sodium chloride 5gr; Yeast extract 1.5gr; Phenol red 0.08gr; Gentamicin 10mg; Vancomycin 2.5mg; Crystal violet 2mg; Polymyxin B 600,000U; Agar 14gr.

Principle and Intended Use

Burkholderia cepacia Selective Agar (BCSA) was developed by Henry, Campbell, LiPuma and Speert for the selective isolation of Burkholderia (Pseudomonas) cepacia.(2) It was found that BCSA had a lower false-positivity rate than either Oxidation-Fermentation-Polymyxin-Bacitracin-Lactose (OFBPL) Agar or PC (Pseudomonas cepacia) Agar. This finding was confirmed later by Henry, Campbell, McGimpsey, Clarke, Loudon, Burns, Roe, Vandamme and Speert.(1)

BCSA contains peptones and sugars that supply nutrients for the growth of *Burkholderia cepacia*, and other microorganisms. Crystal violet is added to inhibit growth of gram-positive organisms. Antimicrobics are incorporated to inhibit organisms other than *Burkholderia cepacia*.

The medium complies the specifications in USP42 – NF37 2S – 9471 <60>
MICROBIAL EXAMINATION OF NON STERILE PRODUCTS –
TESTS FOR *BURKHOLDERIA CEPACIA* COMPLEX

The tests are designed whether a substance or preparation complies with an established specification for microbiological quality and/or to evaluate whether products – especially those for inhalation or aqueous preparations for oral, cutaneous, or nasal use- contain members of the BCC.

Growth Promoting and Inhibitory properties of the medium

Each batch of this medium should be tested for physical parameters, pH and performance according to this document, using standardized stable suspensions of test strains NMT 5 passages from the original strain culture.

The challenge inoculum for GPT must not exceed 100 colony forming units (cfu).

Incubate at the specified temperature for NMT the shortest period of time specified in the incubation conditions.

The strains for challenging inhibition must be used at a 10³ cfu concentration .

Incubate at the specified temperature for NLT the longest period of time specified in the incubation conditions.

After inoculation, incubate plates in aerobic conditions for 2-4 days at 30-35° C or 48-72 hours at 35-37 ° C.

GPT / INHIBITION TEST

Microorganism	Growth and Appearance
<i>Burkholderia cepacia</i> ATCC 25416	Translucent, rough
<i>Burkholderia cenocepacia</i> ATCC BAA - 245	
<i>Burkholderia multivorans</i> ATCC BAA - 247	
<i>Pseudomonas aeruginosa</i> ATCC 27853	Inhibited
<i>Staphylococcus aureus</i> ATCC 6538	Inhibited

Precautions and Disposal

This product is for in vitro diagnostic use only. It is to be used only by adequately trained and qualified laboratory personnel. Observe approved biohazard precautions and aseptic techniques. All laboratory specimens should be considered infectious and handled according to "standard precautions". Sterilize all biohazard waste before disposal.

Low numbers of *Burkholderia cepacia* colonies may not produce a color change in the medium.