

PRODUCT INFORMATION

Burkholderia Cepacia Selective Agar (USP)

Cat. No. B02-138

DESCRIPTION

Burkholderia Cepacia Selective Agar (BCSA) is an agar medium recommended for the selective and differential isolation of *Burkholderia cepacia* complex (Bcc). *B. cepacia* is an important pathogen in pulmonary infections in patients with cystic fibrosis, and BCSA was devised for isolation of the organism from respiratory secretions of patients to be tested under research laboratory conditions. In 1997, Henry et al. ¹ formulated a highly selective medium to improve the speed and accuracy of *B. cepacia* complex isolation and to provide quantitative recovery. This product is formulated according to USP <60>.

FORMULA (g/L)

Casein Peptone	10.0 g	Lactose	10.0 g
Sucrose	10.0 g	Sodium Chloride	5.00 g
Yeast Extract	1.50 g	Phenol Red	0.08 g
Crystal Violet	0.002 g	Agar	20.0 g

Final pH: 6.8 ± 0.3 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 50.6 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes. Cool to between 45°C and 50°C. Aseptically add 10 mL of a filter-sterilized solution containing 10.0 mg of Gentamicin, 2.5 mg Vancomycin, and 600,000 units of Polymyxin B. Mix thoroughly by swirling, with minimal agitation. Distribute into sterile petri dishes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is free flowing, beige in color with or without faint to light pink tint.
2. Visually the prepared medium is red orange in color, and clear to slightly hazy.
3. Expected cultural response after 72 hours at 35 °C ± 2°C. Any growth on BCSA is confirmed by identification tests.

ORGANISM	RESULT
<i>Burkholderia cepacia</i> ATCC 25416	Good Recovery at 48 hours Indicative reaction at 72 hours: Sage Green to Greenish-Brown Colonies w/ Yellow Halo
<i>Burkholderia cenocepacia</i> ATCC BAA-245	Good Recovery at 48 Hours
<i>Burkholderia multivorans</i> ATCC BAA-247	Good Recovery at 48 Hours
<i>Pseudomonas aeruginosa</i> ATCC 9027	Complete Inhibition at 72 Hours
<i>Staphylococcus aureus</i> ATCC 6538	Complete Inhibition at 72 Hours

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.