

BURKHOLDERIA (BCSA) AGAR

A selective and differential medium for the isolation of *Burkholderia cepacia* complex.

Dehydrated media	
Code number:	500 g: BUA20500, 5 kg: BUA25000
Packaging of 500 g	500 g agar base + 20 vials selective supplement
Packaging of 5 kg	5 kg agar base + 200 vials selective supplement
Appearance of agar base:	Yellowish, homogeneous hygroscopic powder
Appearance of supplement:	White, homogeneous lyophilisate
pH before autoclaving (25 °C):	6,9 - 7,3

Direction for Burkholderia (BCSA) agar: Suspend **25 g** in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of **one vial of Burkholderia Selective Supplement** reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for Burkholderia (BCSA) agar Plus: Suspend **25 g** in 500 ml of distilled water. Add **10 ml of Tributyrin Supplement (TRS80250)** and mix until homogeneous. Heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of **one vial of Burkholderia Selective Supplement** reconstituted with 4 ml of sterile distilled water. Mix well and pour plates with frequent agitation immediately to solidify quickly.

Warning!

The ready medium must be homogeneous turbid gel!

Bottled media	
Code number:	100 ml: BUA30100, 500 ml: BUA30500
Packaging of 100 ml bottled media:	100 ml agar base + 1 vial selective supplement
Packaging of 500 ml bottled media:	500 ml agar base + 1 vial selective supplement
Appearance of agar base:	Orange, transparent gel
Appearance of supplement:	White, homogeneous lyophilisate
pH (25 °C):	7,0 - 7,2

Direction: Supplement the melted bottled media bases according to the direction of the dehydrated media and dispense aseptically into sterile Petri-dishes.

Plated media	
Code number of Burkholderia (BCSA) Agar:	55 mm: BUA50055, 90 mm: BUA50090
Code number of Burkholderia (BCSA) Agar Plus:	55 mm: BUA50055-01, 90 mm: BUA50090-01
Appearance of Burkholderia (BCSA) Agar:	Orange, transparent gel
Appearance of Burkholderia (BCSA) Agar Plus:	Orange, turbid gel
pH (25 °C):	7,0 - 7,2

Direction: Media in Petri-dishes are ready to use.

FORMULA FOR ONE LITRE OF BURKHOLDERIA (BCSA) AGAR

Casein peptone	10,000 g
Yeast extract	1,500 g
Sucrose	10,000 g
Lactose	10,000 g
Sodium chloride	5,000 g
Phenol red	0,0800 g
Crystal violet	0,0020 g
Agar	13,5000 g
Gentamicin	0,0100 g
Vancomycin	0,0025 g
Polymyxin B	600.000 IU

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media protected from light at room temperature. Store the supplements and the plated media protected from light at 2-8 °C. Use before the expiry date on the label.

Quality control of Burkholderia (BCSA) agar:

Test strains	Incubation temp: 37 °C	Growth	Incubation time: 48 h
<i>Burkholderia cepacia</i>	ATCC 25416	Good, orange – pink colonies with yellow discolouration around the colonies	
<i>Escherichia coli</i>	ATCC 25922	Inhibited	
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Inhibited	
<i>Staphylococcus aureus</i>	ATCC 25923	Inhibited	

Quality control of Burkholderia (BCSA) agar Plus:

Test strains	Incubation temp: 37 °C	Growth	Incubation time: 48 h
<i>Burkholderia cepacia</i>	ATCC 25416	Good, yellow – yellowish orange colonies with clear halo and yellow discolouration around the colonies	
<i>Ochrobactrum anthropi</i>	ATCC 19286	Good, orange red – pink - red colonies without clear halo and yellow discolouration around the colonies	
<i>Escherichia coli</i>	ATCC 25922	Inhibited	
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Inhibited	
<i>Staphylococcus aureus</i>	ATCC 25923	Inhibited	

References: Henry et al. (1997) J. Clin. Microbiol. 37:4: 1004.

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