

CHARCOAL AGAR BASE

A selective medium for the cultivation and isolation of *Bordetella pertussis* and *Haemophilus influenzae*.

Dehydrated media	
Code number:	500 g: CHA20500, 5 kg: CHA25000
Colour:	Black
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,0 – 7,4

Direction for Bordetella agar: Suspend **26 g** in 450 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 **50 ml of sterile defibrinated blood** and the contents of **one vial of Bordetella Selective Supplement (BSS80004)** reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for Haemophilus agar: Suspend **26 g** in 460 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 **35 ml of sterile defibrinated blood** and “chocolate” by heating at 80 °C for 10 min. Cool to 50 °C. Dissolve the content of **one vial of Growth Factor Mixture Hydration Fluid** with 5 ml of sterile distilled water and add aseptically to the **Growth Factor Mixture (GFM80005)**. Mix well and add aseptically to the medium. Mix well before pouring.

Prepared media	
Bottled media bases:	100 ml: CHA30100, 500 ml: CHA30500
Plated Bordetella Agar:	90 mm: CHA50090-01
Plated Haemophilus Agar:	90 mm: CHA50090-02
Colour:	Black
pH (25 °C):	7,1 – 7,3

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

FORMULA in g/l

Peptones	20,000
Starch soluble	10,000
Sodium chloride	5,000
Charcoal	4,000
Nicotinic acid	0,001
Agar	13,000

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 plated media protected from light at 2-8 °C. Use before the expiry date on the label.

Quality control:

Test strains BO Agar	Incubation temp: 37 °C	Growth	Incubation time: 24 h
<i>Bordetella pertussis</i>	ATCC 8467	Good	
<i>Klebsiella pneumoniae</i>	ATCC 13883	Inhibited	
<i>Staphylococcus aureus</i>	ATCC 29213	Inhibited	
Test strains HA Agar	Incubation temp: 37 °C	Growth	Incubation time: 24 h
<i>Haemophilus influenzae</i>	ATCC 49766	Good	

References: Proom (1955) J. Gen. Microbiol. 12: 63.

In vitro diagnostic – for professional use only!