

WILKINS-CHALGREN AGAR

A non-selective medium for the general cultivation of anaerobe micro-organisms especially recommended for antimicrobial susceptibility testing.

Dehydrated media	
Code number:	500 g: WCA20500, 5 kg: WCA25000
Colour:	Yellowish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	6,9 – 7,3

Direction: Suspend **46 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. If addition of blood is necessary, cool to 50 °C and add aseptically **50 ml of sterile defibrinated blood**. Mix well before pouring.

Prepared media	
Bottled media:	100 ml: WCA30100, 500 ml: WCA30500
Plated blood agar:	55 mm: WCA50055, 90 mm: WCA50090
Colour of bottled blood free agar:	Yellowish
Colour of plated blood agar:	Ruby red
pH (25 °C):	7,0 – 7,2

Direction: Dispense the melted bottled media aseptically into sterile Petri-dishes. If necessary, blood may be added to the melted bottled media according to the direction of the dehydrated media. Media in Petri-dishes are ready to use.

FORMULA in g/l

Nutrient substrate (peptones, extracts)	25,000
Glucose	1,000
L-Arginine	1,000
Sodium chloride	5,000
Sodium pyruvate	1,000
Vitamins	0,011
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	Incubation temp: 37 °C	Growth	Incubation time: 48 h
<i>Bacteroides fragilis</i>	ATCC 23745	Good (under anaerobic conditions)	
<i>Clostridium pefringens</i>	ATCC 13124	Good (under anaerobic conditions)	

References: Wilkins and Chalgren (1976) Antimicrob. Agents Chemother. 10: 926.

In vitro diagnostic – for professional use only!