

TECHNICAL SHEET

CB007	Modified Wilkins Chalgren Broth	
Formula		
Ingredients:	gms/lit.	
Casein enzymic hydrolysate	10.00	
Peptic digest of animal tissue	10.00	
Yeast extract	5.00	
Dextrose	1.00	
Sodium chloride	5.00	
L-arginine	1.00	
Sodium pyruvate	1.00	
Hemin	0.005	
Menadione	0.0005	
Final pH (at 25°C): 7.1 ± 0.2		
Directions:		
<p>Label the ready to use blood culture bottle (CB007). remove the top seal of the cap. Disinfect the part of the rubber stopper which is now exposed. Transfer the blood sample immediately into the culture bottle by puncturing the rubber stopper with the needle and injecting the blood. Venting: Use sterile venting needle. Keep the bottle in an upright position preferably in a biological safety cabinet, place an alcohol swab over the rubber stopper and insert the venting needle with filter through it. Insertion and withdrawal of the needle should be done in a straight line. discard the needle and mix the contents by gently inverting the bottle 2-3 times. Do Not vent the bottle for anaerobic cultures. Incubate at 35±2°C for 18-24 hours and further for seven days.</p>		
Principle:		
<p>Peptic digest of animal tissues and casein enzymic hydrolysate serve as sources of essential nutrients including carbon and nitrogen. Yeast extract provides vitamins and other growth factors like purines and pyrimidines that are essential for the growth of P. melaninogenica. Arginine serves as an amino acid source while pyruvate serves as an energy source. The broth medium is especially useful in the broth micro-dilution tests. Wilkins Chalgren Broth media need to be appropriately supplemented to support the growth of certain anaerobic bacteria. Hemin and Menadione (Vitamin K3) enhances the growth of Bacteroides species and Prevotella melaninogenica, respectively and many other species of gram-negative anaerobic rods. The medium can also be supplemented with defibrinated or lysed blood for the growth of fastidious anaerobic bacteria</p>		
(I) QC Tests		
pH:	7.1 ± 0.2	
Color:	Medium amber coloured clear solution	
Appearance:	Sterile clear Modified Wilkins Chalgren broth in glass bottle.	
(II) Sterility test		
Passes release criteria		
(III) Q.C. Test Microbiological		
Cultural characteristics observed after incubation at 35 - 37°C for 24-48 hours.		
MICROORGANISM (ATCC)	GROWTH	GROWTH(UNDER AEROBIC CONDITIONS)
Escherichia coli 25922	-	luxuriant
Bacteroides vulgatus 8482	luxuriant	-
Bacteroides melaninogenicus 25611	luxuriant	-
Clostridium perfringens 12924	luxuriant	-

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Precautions :	1. In Vitro diagnostic use only. 2. Read the label before opening the container
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use:	A qualitative test for detection of strict or facultative anaerobic microorganisms in blood.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	20ml/70ml in Glass bottle.

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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