

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1459	COLUMBIA BLOOD AGAR BASE		
Formula			
Ingredients:			
ISO Specification - Columbia Blood Agar	B1459- Columbia Blood Agar Base		
Ingredients	g / L	Ingredients	g / L
Enzymatic digest of animal tissues	23.000	Peptone, special #	23.00
Starch soluble	1.000	Corn, Starch	1.00
Sodium chloride	5.000	Sodium chloride	5.00
Agar	8.00 to 18.00	Agar	15.0
Supplements to be added after autoclaving		5% v/v sterile defibrinated sheep blood	
Blood	50ml	Blood	50ml
Final pH (at 25°C)	7.4±0.2	Final pH (at 25°C)	7.4 ±0.2
		# Enzymatic digest of animal tissues	
Directions :			
Suspend 44.0 grams of in 1000 ml purified/ distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Aseptically add 5% v/v sterile defibrinated sheep blood. Mix well and pour into sterile Petri plates.			
Principle :			
This medium contains peptone which supports rapid and luxuriant growth of fastidious and non-fastidious organisms. Starch serves as an energy source and also neutralizes toxic metabolites. Sheep blood permits the detection of haemolysis and also provides heme (X factor) which is required for the growth of many bacteria.			
QC Tests - (I)Dehydrated Medium			
	Colour :	Cream to light yellow	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	7.3 ± 0.2	
	Colour (post autoclaving/heating) :	A) Basal medium : light yellow to light amber B) (After addition of 5% sterile defibrinated blood): Cherry red	
	Clarity (post autoclaving/heating) :	A) Clear to slightly opalescent gel B) Opaque	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed with added 5% w/v sterile defibrinated blood, after an incubation at 41.5±1°C for 24 to 48 hours in micro aerobic conditions		
	MICROORGANISM (ATCC)	GROWTH w/5% BLOOD	
	Campylobacter coli ATCC 33559	Good-luxuriant	
	Campylobacter jejuni ATCC 33291	Good-luxuriant	
	Campylobacter jejuni ATCC 29428	Good-luxuriant	

Refer disclaimer Overleaf

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Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :	1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium. 2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement. 3. For further confirmation of Campylobacter oxidase, catalase, hippurate test and indoxyl acetate hydrolysis should be carried out				
Use :	Recommended for selective detection and enumeration of Campylobacter species from food chain. The composition and performance criteria of this medium are as per the specifications laid down in ISO 10272-1:2017, ISO 10272-2:2017 and ISO 11133:2014 /Amd. 2:2020 (E).				
Storage :	Dehydrated medium- below 30°C Prepared medium-Between 2 to 8°C.				
Packing :	500 gm bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1459	44 g/l	11.363L	7.4 ± 0.2	5% sterile defibrinated sheep or horse blood	121°C / 15 minutes

Page 02 of 02

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. The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

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