

TECHNICAL SHEET

B149	COLUMBIA BROTH BASE				
Formula					
Ingredients :		gms/lit.			
Peptone, special		10.00			
Biopeptone		10.00			
Heart infusion powder		3.00			
L-Cystine hydrochloride		0.10			
Dextrose		2.50			
Sodium chloride		5.00			
Magnesium sulphate		0.10			
Ferrous sulphate		0.02			
Sodium carbonate		0.60			
Tris (hydroxymethyl) aminomethane		0.83			
Tris (hydroxymethyl) aminomethane HCl		2.86			
Final pH (at 25°C) : 7.5 ± 0.2					
Directions :					
Suspend 35.01 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. If desired, SPS (sodium polyanethol sulphonate) may be added in a final concentration of 0.01%. Dispense into tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C.					
Principle :					
Medium contains peptones, heart infusion to support luxurious growth of the organisms. Starch, which was originally included in the Columbia blood agar, is omitted from Columbia broth and the addition of salts were found to be beneficial for the recovery of organisms. Broth is buffered with Tris.					
QC Tests – (I) Dehydrated Medium					
Colour :		Cream to yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.5 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent solution, may have a fine precipitate.			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 48 hrs. at 35-37°C.					
	MICROORGANISM (ATCC)	GROWTH			
	Clostridium perfringens (12924)	Luxuriant			
	Neisseria meningitidis (13090)	Luxuriant			
	Staphylococcus aureus (25923)	Luxuriant			
	Streptococcus pyogenes (19615)	Luxuriant			
	Streptococcus mitis (9895)	Luxuriant			
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
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 :	For cultivation of fastidious organisms from clinical specimens.				
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
B149	35g/l	14.28L	7.5 ± 0.2	nil	121°C / 15 minutes

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 BIOMARK LABORATORIES publications.

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