

TECHNICAL SHEET

B209		SHEEP BLOOD AGAR BASE			
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		14.000			
Peptic digest of animal tissue		4.500			
Yeast extract		4.500			
Sodium chloride		5.000			
Agar		12.500			
Final pH (at 25°C): 7.3 ± 0.2					
Directions :					
Suspend 40.5 grams in 1000 ml 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 and aseptically add 7% sterile sheep blood. Mix well and pour into sterile Petri plates.					
Principle :					
Haemolysins are exotoxins produced by bacteria that lyse red blood cells. The haemolytic reaction can be visualized on blood agar plates. On blood agar plates colonies of haemolytic bacteria may be surrounded by clear, colourless zone where the red blood cells have been lysed and the haemoglobin destroyed to a colourless compound. This is beta haemolysis. Other types of bacteria can reduce haemoglobin to methaemoglobin which produces a greenish zone around the colonies and is called alpha haemolysis.					
Sheep Blood Agar Base with added sheep blood was developed to allow maximum recovery of organisms without interfering with their haemolytic reactions. Sheep Blood Agar Base was formulated to be compatible with sheep blood and give improved haemolytic reactions of organisms.					
Casein enzymic hydrolysate, Peptic digest of animal tissue and yeast extract provide nitrogen, carbon, amino acids and vitamins. Sodium chloride maintains the osmotic balance. Sheep Blood Agar Base showed considerable improvement and the expected beta haemolytic reactions with S. pyogenes in comparison to other blood agar bases supplemented with blood.					
QC Tests – (I)Dehydrated Medium					
	Colour :		Cream to yellow		
	Appearance :		Homogeneous Free Flowing powder		
(II)Rehydrated medium					
	pH (post autoclaving/heating) :		7.3 ± 0.2		
	Colour (post autoclaving/heating):		Basal medium- light yellow, On addition of 7% sheep blood- Cherry red		
	Clarity (post autoclaving/heating):		Basal medium-Clear gel without any precipitate. On addition of 7% sheep blood- Opaque gel		
(III)Q.C. Test Microbiological					
	Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours with added 7% v/v sterile sheep blood.				
	MICROORGANISM (ATCC)		GROWTH	HAEMOLYSIS	
	Streptococcus pneumoniae (6303)		Luxuriant	alpha	
	Streptococcus pyogenes (19615)		Luxuriant	beta	
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 :					
	With addition of sheep blood gives improved hemolytic reactions of organisms.				
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
B209	40.50g/l	12.345L	7.3 ± 0.2	7% sterile sheep blood	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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