PP028	**Sheep Blood Agar Plate**
Formula	
Ingredients:	**gms/lit.**
Casein enzymic hydrolysate	14.00
Peptic digest of animal tissue	4.50
Yeast extract	4.50
Sodium chloride	5.00
Agar	12.50
Sheep Blood	5.00
Final pH (at 25°C): 7.3 ± 0.2	

Directions:

Label the ready to use plate (PP028). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

Principle:

Casein enzymic hydrolysate and yeast extract provide nitrogen, carbon, amino acids and vitamins. Peptic digest of animal tissue is the nitrogen source. Sodium chloride maintains the osmotic balance. 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. 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. On blood agar plates colonies of haemolytic bacteria may be surrounded by clear, colorless 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.

(I) QC Tests		
	pH:	7.3 ± 0.2
	Color:	Bright Red coloured medium.
	Appearance:	Sterile Sheep Blood Agar in 85mm disposable plates.
(II)Sterility test		Passes release criteria
(III)Q.C. Test Microbiological		

Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.

MICROORGANISM (ATCC)	INOCULUM	GROWTH	RECOVERY	HAEMOLYSIS
Escherichia coli 25922	50-100	luxuriant	>=70%	none
Staphylococcus aureus 25923	50-100	luxuriant	>=70%	beta
Streptococcus pyogenes19615	50-100	luxuriant	>=70%	beta
Staphylococcus aureus 6538	50-100	luxuriant	>=70%	beta
Streptococcus pneumoniae 6303	50-100	luxuriant	>=70%	alpha
Enterococcus faecalis 29212	50-100	luxuriant	>=70%	beta

Refer disclaimer Overleaf

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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:	Used for cultivation of fastidious organisms and studying hemolytic reactions. It provides improved and enhanced hemolysis.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	20/50 disposable plates.

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