BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

B106	**AZIDE BLOOD AGAR BASE**
Formula	
Ingredients :	**gms/lit.**
Peptone, special	10.00
Beef extract	3.00
Sodium chloride	5.00
Sodium azide	0.20
Agar	15.00

Final pH (at 25°C) : 7.2 ± 0.2

Directions :

Suspend 33.2 grams in 1000 ml of 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. For preparing Blood Agar plates, 5% v/v sterile defibrinated blood is added aseptically. Mix well and pour into sterile Petri plates.

Principle :

Peptone, special used in this medium is highly nutritious and supports luxuriant growth of fastidious microorganisms. Azide inhibits growth of many gram negative bacteria. Proteus species may grow on this medium, however, its swarming is inhibited. The pH of medium influences inhibitory action of sodium azide. At pH 7.2 sodium azide does not interfere with haemolytic reactions of Streptococci, however, haemolytic pattern of Streptococci is different on Azide Blood Agar as compared with nonselective blood agar. Azide enhances haemolytic reactions. Use light inoculum for best results and incubate a anaerobically for enhancement in haemolytic reactions.

QC Tests – (I)Dehydrated Medium	
Colour :	Cream to yellow
Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	7.2 ± 0.2
Colour (post autoclaving/heating) :	a) Basal medium : Yellow b) After addition of 5% v/v sterile defibrinated blood yields : Cherry red which darkens on standing.
Clarity (post autoclaving/heating) :	a) Slightly opalescent b) Opaque
(III)Q.C. Test Microbiological	

Cultural characteristics observed with added 5%w/v sterile defibrinated blood, after an incubation at 35-37°C for 18-24 hours.

MICROORGANISM (ATCC)	GROWTH	HAEMOLYSIS
Enterococcus faecalis (29212)	Luxuriant	Alpha/gamma
Streptococcus pyogenes (19615)	Good – luxuriant	Beta
Escherichia coli (25922)	None to poor	-
Staphylococcus epidermidis (12228)	Luxuriant	-
Streptococcus pneumoniae (6603)	Luxuriant	Alpha

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 selective isolation and cultivation of Staphylococcus and Streptococcus species from mixed bacterial flora.
Warning:	Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.
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
B106	33.2 g/l	15.06 L	7.2 ± 0.2	Sterile defibrinated blood	121^0C /15 min.