

B469	CLOSTRIDIAL AGAR				
Formula					
Ingredients :		gms/lit.			
Tryptone		17.00			
Soya peptone		3.00			
Dextrose		6.00			
Sodium chloride		2.50			
Sodium thioglycollate		1.80			
L-Cystine		0.25			
Sodium formaldehyde sulfoxylate		1.00			
Neomycin sulphate		0.15			
Sodium azide		0.20			
Agar		14.50			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 46.4 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 118°C for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.					
Principle :					
Tryptone and soya peptone provide the nitrogenous and carbonaceous compounds, long chain amino acids and other essential nutrients, mainly the nitrogen compounds. Dextrose serves as the carbon or fermentable carbohydrate source. L-cystine is an amino acid, which promotes the growth of Clostridia. Sodium thioglycollate and sodium formaldehyde sulfoxylate are the reducing agents that help to create low oxidation-reduction potential enabling the growth of Clostridia. Neomycin sulphate and sodium azide inhibit a number of organisms including Bacillus species, enteric bacilli, Proteus, Pseudomonas and most of the cocci.					
QC Tests - (I) Dehydrated Medium					
	Colour :	Cream to beige			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.0 ± 0.2			
	Colour (post autoclaving/heating) :	Yellow			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 -24 hrs. at 35-37°C.					
	MICROORGANISM (ATCC)	GROWTH			
	Clostridium sporogenes (11437)	Luxuriant			
	Clostridium tetani (10779)	Luxuriant			
	Clostridium perfringens (12924)	Luxuriant			
	Escherichia coli (25922)	Inhibited			
	Staphylococcus aureus (25923)	Inhibited			
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 of pathogenic Clostridia from mixed flora.				
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
B469	46.4 g/l	10.775 L	7.0 ± 0.2	Nil	118°C / 15 minutes