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 sulphoxylate	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 sulphoxylate 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	118^0C / 15 minutes

Refer disclaimer Overleaf

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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 BIOMARKLABORATORIES publications.
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