TECHNICAL SHEET

B581	LACTOSE LECITHIN AGAR

Formula

Ingredients :	gms/lit.
Casein enzymic hydrolysate	12.65
Peptic digest of animal tissue	5.50
Pancreatic digest of heart muscle	3.30
Yeast extract	3.85
Corn starch	1.10
Sodium chloride	5.50
Lactose	10.00
Sodium azide	0.20
Neomycin sulphate	0.15
L-Cysteine hydrochloride	0.50
Calcium chloride	0.05
Egg lecithin	0.66
Bromo cresol purple	0.025
Agar	15.00

Final pH (at 25°C) : 6.8 ± 0.2

Directions :

Suspend 58.5 gms. in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle :

Casein enzymic hydrolysate, peptic digest of animal tissue and pancreatic digest of heart muscles provide carbonaceous and nitrogenous compounds essential for the growth of bacteria. Yeast extract supplies vitamin B-complex. Corn starch neutralizes toxic fatty acids present in the medium. Neomycin and sodium azide inhibit gram- negative, aerobic gram – positive rods and suppresses growth of gram – positive cocci. Medium should be reduced prior to inoculation.

QC Tests – (I)Dehydrated Medium	
Colour :	Cream to yellow
Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	6.8 ± 0.2
Colour (post autoclaving/heating) :	Yellow
Clarity (post autoclaving/heating) :	Slightly opalescent
(III)Q.C. Test Microbiological	

Cultural characteristics observed after 48 hrs.at 35-37°C, under anaerobic condition.

MICROORGANISM (ATCC)	GROWTH	LECITHINASE PRODUCTION	LACTOSE FERMENTATION	LIPASE
Clostridium perfringens (12924/12919)	Luxuriant	+	+	-
Clostridium sordelli (9714)	Luxuriant	+	-	-
Clostridium sporogenes (11437)	Luxuriant	-	-	+
Clostridium histolyticum (194011)	Luxuriant	-	-	-
Clostridium difficile	Luxuriant	-	-	-
Clostridium tetani (10779)	Luxuriant	-	-	V-

Key : Lecithinase production + = opaque, opalescent zone sorrounding colonies.
Lactose fermentation + = positive reaction, yellow coloured zone surrounding colonies due ot acid production.
\- = negative reaction, medium surrounding he colonies remains purple
v- = variable, usually negative

Refer disclaimer Overleaf

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 isolation and differentiation of histotoxic Clostridia from clinical specimens.				
Storage :	Dehydrated medium and prepared medium– Between 2 to 8°C.				
Packing :	500 gm bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B581	58.5 g/l	8.54 lit	6.8 ± 0.2	Nil	121^0C/15 min