

TECHNICAL SHEET

B039	SOYABEAN CASEIN DIGEST AGAR (TRYPTONE SOYA AGAR)		
Formula			
Ingredients :		gms/lit.	
Tryptone		15.00	
Soya peptone		5.00	
Sodium chloride		5.00	
Agar		15.00	
Final pH (at 25°C) : 7.3 ± 0.2			
Directions :			
Suspend 40 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired, aseptically add 5% v/v defibrinated blood in previously cooled medium to 45-50°C for cultivation. Mix well and pour into sterile Petri plates.			
Principle :			
The combination of tryptone and soya peptone makes this media nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Sodium chloride maintains the osmotic balance.			
QC Tests - (I) Dehydrated Medium			
Colour :		Cream to light yellow	
Appearance :		Homogeneous Free Flowing powder	
(II) Rehydrated medium			
pH (post autoclaving/heating) :		7.3 ± 0.2	
Colour (post autoclaving/heating) :		a) Cream to light yellow b) After addition of blood : Cherry red	
Clarity (post autoclaving/heating) :		a) Clear slightly opalescent b) Opaque	
(III) Q.C. Test Microbiological			
Cultural characteristics was observed after an incubation for Bacterial at 30-35°C 18-24 hours and for Fungal at 30-35°C ≤5days.			
MICROORGANISM (ATCC)	GROWTH W/ BLOOD	HAEMOLYSIS	
Bacillus subtilis (6633)	Luxuriant	None	
Staphylococcus aureus (6538)	Luxuriant	β	
Staphylococcus aureus (25923)	Luxuriant	β	
Escherichia coli (25922)	Luxuriant	None	
Escherichia coli (8739)	Luxuriant	None	
Escherichia coli (NCTC9002)	Luxuriant	None	
Escherichia coli (11775)	Luxuriant	None	
Escherichia coli (NCTC13167)	Luxuriant	None	
Pseudomonas aeruginosa (10145)	Luxuriant	None	
Pseudomonas aeruginosa (27853)	Luxuriant	None	
Pseudomonas aeruginosa (9027)	Luxuriant	None	
Salmonella Abony (NCTC6017)	Luxuriant	None	
Micrococcus luteus (9441)	Luxuriant	None	
Streptococcus pneumoniae (6305)	Luxuriant	None	
Salmonella Typhimurium (14028)	Luxuriant	None	
Enterococcus faecalis (29212)	Luxuriant	None	
Candida albicans (10231)	Luxuriant	None	
Candida albicans (2091)	Luxuriant	None	
Clostridium perfringens (13124)	Luxuriant	None	
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 :	A general-purpose medium used for cultivation of a wide variety of microorganisms and for sterility testing in pharmaceutical procedures.		
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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
B039	40g/l	12.5L	7.3 ± 0.2	5% defibrinated blood v/v	121°C / 15 minutes