

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/purified 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 medium with addition of blood provides perfectly defined hemolysis zones, while preventing the lysis of erythrocytes due to its sodium chloride content. It's simple and inhibitor-free composition makes it suitable for the detection of antimicrobial agents in the food and other products. 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.			
Type of specimen : Pharmaceutical samples, Clinical samples- urine, faeces, abscess etc.			
Specimen Collection and Handling:			
For clinical samples follow appropriate techniques for handling specimens as per established and current guidelines of clinical microbiology.			
For Pharmaceutical samples, follow appropriate techniques for sample collection,handling and processing as per standard and current guidelines of pharmacopeias.			
After use, contaminated materials must be sterilized by autoclaving before discarding.			
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) Light yellow b) After addition of 5-7%w/v sterile defibrinated 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

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	Micrococcus luteus (9341)	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 perfringenes (13124)	Luxuriant		None	
	Aspergillus brasiliensis (16404)	Good-Luxuriant		None	
Warning & Precautions :	1. For In vitro diagnostic Use.By professionals only.				
	2. Read the label carefully before opening the container.Wear PPE wares.Follow established good microbiology laboratory practices while handling specimens and cultures and take standard precautions for handling clinical specimens.				
	3. For safety guidelines refer individual safety data sheet.				
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
	2.This medium is general purpose medium and may not support the growth of fastidious organisms.				
	3. Further biochemical and serological tests must be carried out for confirmation.				
Use:	It is a general-purpose medium used for cultivation of a wide variety of microorganisms from clinical and non-clinical samples and for sterility testing in pharmaceutical procedures.				
Storage:	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
Disposal:	Ensure safe disposal by autoclaving/or incineration of used or usable preparation of this product. Follow established laboratory procedures while disposing all infectious material and those coming in contact must be decontaminated and disposed off with existing laboratory technics.				
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

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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