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) Llight 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	
	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	

Refer disclaimer Overleaf

Rev: July 2022

	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 mediums– 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% v/v defibrinated blood	121^0C / 15 minutes	