

**TECHNICAL SHEET**

<b>B018</b>	<b>TRYPTONE SOYA AGAR (CASEIN SOYABEAN DIGEST AGAR)</b>		
<b>Formula</b>			
<b>Ingredients:</b>		<b>gms/lit.</b>	
Pancreatic digest of casein		15.00	
Papaic digest of soyabean meal		5.00	
Sodium chloride		5.00	
Agar		15.00	
Final pH (at 25°C) :		7.3 ± 0.2	
<b>Directions :</b>			
Suspend 40.0 gms in 1000ml. distilled water. Heat 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 at 45 - 50°C. Mix well before pouring.			
<b>Principle :</b>			
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. Agar is the solidifying agent.			
<b>QC Tests - (I) Dehydrated Medium</b>			
Colour :		Cream to light yellow	
Appearance :		Homogeneous Free Flowing powder	
<b>(II) Rehydrated medium</b>			
pH (post autoclaving/heating):		7.3 ± 0.2	
Colour (post autoclaving/heating) :		Light amber to light yellow	
Clarity (post autoclaving/heating) :		Clear to slightly opalescent. After addition of 5-7%w/v sterile defibrinated blood : Cherry red	
<b>(III) Q.C. Test Microbiological</b>			
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	GROWTH W/ BLOOD	HAEMOLYSIS
<b>Growth at 30-35°C for ≤ 3 days</b>			
Bacillus subtilis (6633)	luxuriant	luxuriant	none
Staphylococcus aureus (25923)	luxuriant	luxuriant	beta
Staphylococcus aureus (6538)	luxuriant	luxuriant	beta
Escherichia coli (25922)	luxuriant	luxuriant	none
Escherichia coli (8739)	luxuriant	luxuriant	none
Escherichia coli(NCTC9002)	luxuriant	luxuriant	none
Pseudomonas aeruginosa (27853)	luxuriant	Luxuriant	-
Pseudomonas aeruginosa (9027)	luxuriant	luxuriant	-
Salmonella Abony (6017)	luxuriant	luxuriant	-
Micrococcus luteus (9341)	luxuriant	luxuriant	-
Salmonella Typhimurium (14028)	luxuriant	luxuriant	-
Streptococcus pneumonia (6305)	luxuriant	luxuriant	-
Clostridium sporogenes (19404)	luxuriant	luxuriant	-
<b>Growth at 20-25°C for ≤ 5 days</b>			
Aspergillus brasiliensis (16404)	luxuriant	luxuriant	
Candida albicans (2091)	luxuriant	luxuriant	
Candida albicans (10231)	luxuriant	luxuriant	

Refer disclaimer Overleaf

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<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use:</b>	It is a general purpose medium used for cultivation of a wide variety of microorganisms and for sterility testing in pharmaceutical procedures.				
<b>Storage:</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B018</b>	40.0 g/l	12.5 L	7.3 ± 0.2	5% v/v defibrinated blood	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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