TECHNICAL SHEET

B737	STANDARD METHODS CASEINATE AGAR

Formula

Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	5.00
Yeast extract	2.50
Dextrose	1.00
Sodium caseinate	10.00
Trisodium citrate	4.41
Calcium chloride	2.22
Agar	15.00

Final pH (at 25°C) : Self

Directions :

Suspend 40.13 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. Mix well and pour into sterile Petri plates.

Principle :

Sodium caseinate is the major protein source for the proteolytic organisms. Casein enzymic hydrolysate and yeast extract provide nitrogenous nutrients to the proteolytic organisms. Dextrose is the carbohydrate source. Proteolytic organisms form white or off – white precipitate around the colony. Organisms which are strongly proteolytic can breakdown the precipitate formed around the colonies to soluble components with the formation of an inner transparent zone. For the enumeration of proteolytic psychrotrophic bacteria, inoculated plates should be incubated for 10 days at 7°C.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	Self
	Colour (post autoclaving/heating) :	Yellow
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after 18 -24 hrs at 35-37°C.	

	MICROORGANISM (ATCC)	GROWTH	PROTEOLYTIC ACTIVITY
	Bacillus cereus (11778)	Luxuriant	positive, opaque or clear zones around colonies
	Pseudomonas aeruginosa (27853)	Luxuriant	positive, opaque or clear zones around colonies
	Escherichia coli (25922)	Luxuriant	negative, no opaque or clear zones around colonies

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 detection of proteolytic microorganisms.
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
B737	40.13g/l	12.459L	Self	NIL	121^0C / 15 minutes

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