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B280 PM INDICATOR AGAR (PENICILLIN IN MILK INDICATOR AGAR)								
Formula								
Ingredients :		gms/	/lit.					
Peptic digest of a	inimal tissue 5.00							
Casein enzymic h	nic hydrolysate 1.70							
Papaic digest of soyabean meal			0.30					
Meat Extract B#			3.00					
Dextrose			5.25					
Sodium chloride			0.50					
Dipotassium phosphate			0.25					
Polysorbate 80			1.00					
Bromo cresol purple			0.06					
Agar			15.00					
# Equivalent to Beef Extract								
Final pH (at 25°C) : 7.8 <u>+</u> 0.2								
Directions :								
Suspend 3.2 gms. in 100ml distilled water. Boil to dissolve the medium completely. Sterilize by								
autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C.								
Principle :								
PM Indicator Agar is used for rapid detection of trace amounts of penicillin in milk where AOAC has								
recommended Bacillus stearothermophilus qualitative discs (1).PM Indicator Agar is designed according to								
the formula published by the 18 th Annual Meeting of the National Mastitis Council (2). This method is a								
modification of the method approved by the international Dairy Federation for the qualitative detection of								
penicillin in milk (3). Originally a medium called Reductase Medium was suggested by Reid and Brewer for								
detecting penicillin in milk by using Bacillus subtillis (4). The present medium is better , faster and more								
reliable than that of Reid and Brewer (This medium is designed to support and demonstrate the growth								
and acid formation by B.stearothermophilus, which is sensitive to penicillin and β -lactam residues). To								
demonstrate the presence of traces of penicillin in milk, the qualitative disc method is found to be more								
suitable which is also recommended by AOAC. Inoculate the medium with 1 ml of uniformly dispersed B.								
stearothermophilus suspension prepared as per AOAC(1). Prepare dilutions of standard penicillin G								
(positive control) to give concentrations in the range of 0.005 to 0.1 units/ml. Use a suspension of								
inhibitos free non-fat dry milk for negative control.								
QC Tests – (I)Del								
Colour :				Beige to bluish grey				
Appearance :				Homogeneous Free Flowing powder				
(II)Rehydrated medium								
pH (post autoclaving/heating) :					7.8 ± 0.2			
Colour (post autoclaving/heating) :					Purple			
Clarity (post autoclaving/heating) :					Slightly opalescent			
(III)O.C. Test Microbiological								
MICROORGANISM (ATCC)		GROWTH	INC	CUBATION	TIME			
			TEN	MPERATURE				
Bacillus stearothermophilus		Good	55	± 2°c	3-4 hours			
(7953)		0000		_ 0	0 110010			
Bacillus stean	Luxuriant	64	+ 2°c	2-3 hours				
(7953)		Luxunune			2 5 110015			
Precautions : 1. For Laboratory Use								
2 Follow proper established laboratory procedures in bandling and disposing of								
	infectious materi	ale	nato	ly procedure	.s in nanuning a	nu v	disposing of	
Limitations :	Limitatione L 1. Since the putritional requirements of erganisms years, some studies may be							
Linnations .	In Since the nutritional requirements of organisms vary, some strains may be							
For rapid detection of trace amounts of Denicillin in mills using Basillus							10	
etearothermonbilus as per AOAC							15	
Chave and a	Sterzan I Debudrated medium below 2000 Prenared medium Between 2 to 200							
Storage : Denyarated medium- below 30°C Prepared medium- Between 2 to 8°C.							»°С.	
Packing :	dCKIIIY: 500 gill. Dollie							
Product profile:	Reconstitution	Quantity on	on pH (25°C		Supplement		Sterilization	
		Preparation (50	Ug)					
B280	32g/l	15.625L		7.8 ± 0.2	NIL		121°C / 15 minutes	

Refer disclaimer Overleaf

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