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B191	FOLIC ACID CASEI MEDI	UM					
Formula							
Ingredients :		Gms/lit.					
Vitamin free Casein acid hydrolysate		10.00					
Dextrose		40.00					
Sodium acetate		40.00					
Dipotassium phosphate		1.00					
Monopotassium phosphate		1.00					
DL-Tryptophan		0.20					
L-Aspargine		0.60					
L-Cystine hydrochloride		0.50					
Adenine sulphate		0.010					
Guanine hydrochloride		0.010					
Uracil		0.010					
Xanthine		0.020					
	ooleate complex	0.100					
Glutathione		0.005					
Magnesium s	ulphate	0.400					
Sodium chlor		0.020					
Ferrous sulph	ate	0.020					
Manganese s	ulphate	0.015					
Riboflavin (vi		0.001					
p-Amino ben	zoic acid (PABA)	0.002					
Pyridoxine hy	drochloride	0.004					
Thiamine hydrochloride		0.0004					
Calcium pant	othenate	0.0008					
Nicotinic acid		0.0008					
Biotin		0.00002					
Final pH (at 2	25°C) : 6.7 <u>+</u> 0.1						
Directions :							
Suspend 9.4 gms.in 100 ml distilled water and add 50 mg ascorbic acid. Heat to boiling to dissolve the							
medium completely. For assay dispense 5ml medium per assay tube (containing increasing amount of							
Standard on the unknown) and make the total volume to 10 ml with distilled water. Sterilize by							
autoclaving at 15lbs pressure (121°C) for 5 minutes. Cool immediately.							
Principle :							
Normal persons have a normal serum folic acid level of 9.9ng/ml. This level is greatly altered in case of							
abnormalities and also when the body is under a diseased state. Folic acid casei medium is used for the							
microbiological assay of folic acid in blood serum using Lactobacillus casei ATCC 7469 as the test							
organism. This medium is based on the formulation of Flynn et al, modified by Baker et al and waters							
and mollin. The test organism used in vitamin assay generally requires three media. i.e. culture							
maintenance medium, a inoculation medium and a test medium. The latter is usually a chemically defined medium that contains all the ingredients and nutrients essential for growth of the test organisms.							
defined medium that contains all the ingredients and nutrients essential for growth of the test organisms except the material under study. Similarly folic acid casei medium contains all the essential nutrients for							
the growth of L.casei except folic acid. Therefore additions of folic acid in specified increasing							
concentrations gives a similar increase in the growth response of L.casei.							
)Dehydrated Medium						
Colour :		Off white					
Appearance		Homogeneous Free Flowing powder					
	fer disclaimer Overleaf						

Refer disclaimer Overleaf

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(II)Rehydrated medium							
pH (post autoclaving/heating) :			6.7 ± 0.2				
Colour (post autoclaving/heating) :		ng): L	Light amber				
Clarity (post autoclaving/heating) :			Clear				
(III)Q.C. Test Microbiological							
Cultural charac	cteristics observe	ed after 16-	18 hrs at	35-37°C.			
MICROORGANISM (ATCC)			GROW	/TH			
LACTOBACILLUS CASEI (ATCC 7469)		69)					
Precautions :	1. For Laborato	I. For Laboratory Use.					
	2. Follow proper, established laboratory procedures in handling and disposing of						
infectious materials.		rials.					
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 :	Used for the microbiological assay of folic acid in blood serum using Lactobacillus casei						
			test organism.				
Storage :	Dehydrated medium- Between 2-8°C Prepared medium– Use freshly prepared medium.						
Packing :	500 gm bottle						
Product profile:	Reconstitution	Quantity on		pH (25°C)	Supplement	Sterilization	
		Preparation	(500g)				
B191	93.91 g/l	1.06	L	6.7 ± 0.2	Ascorbic acid	121°C / 15 minutes	

Disclaimer:

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