

BS022		FOLIC ACID ASSAY MEDIUM (S. FAECALIS)			
Formula					
Ingredients :		gms/lit.			
Casein Acid Hydrolysate, vitamin free		12.00			
Dextrose		40.00			
Sodium Citrate		20.00			
L-Cystine		0.20			
DL-Tryptophan		0.20			
Adenine Sulphate		0.02			
Guanine Hydrochloride		0.02			
Uracil		0.02			
Thiamine Hydrochloride		0.002			
Pyridoxine Hydrochloride		1.004			
Riboflavin		0.002			
Niacin		0.002			
p-Aminobenzoic Acid		0.0002			
Biotin		0.0000008			
Calcium Pantothenate		0.0004			
Dipotassium phosphate		1.00			
Monopotassium phosphate		1.00			
Mangesium sulphate		0.40			
Sodium Chloride		0.02			
Ferrous Sulphate		0.02			
Manganese Sulphate		0.02			
Final pH (at 25°C) : 6.8 ± 0.2					
Directions :					
Suspend 7.5 gms.in 100 ml. distilled water. Boil to dissolve the medium completely. Mix well to distribute the slight precipitate evenly. For assay, dispense 5 ml medium per assay tube (containing increasing amounts of standard or the unknown) and make total volume to 10 ml with distilled water. Sterilize by autoclaving at 121°C for 10 minutes. Cool immediately.					
Principle :					
Medium contains nutrients like amino acids, carbohydrates, purine, pyrimidines, salts, and vitamins. Folic acid is required for the growth of Streptococcus faecium hence the growth of this organism will occur only if the sample being assayed contains folic acid. The exact folic acid concentration in the test sample can be determined by comparing the growth obtained to that of known standard concentrations of folic acid (standard curve).					
QC Tests – (I)Dehydrated Medium					
		Colour :		Off white	
		Appearance :		Homogeneous Free Flowing powder	
(II)Rehydrated medium					
		pH (post autoclaving/heating) :		6.8 ± 0.2	
		Colour (post autoclaving/heating) :		Light amber	
		Clarity (post autoclaving/heating) :		Clear	
(III)Q.C. Test Microbiological					
		Cultural characteristics observed after 16-18 hrs. at 35-37°C.			
		MICROORGANISM (ATCC)		GROWTH	
		Enterococcus hirae (8043)		Gradual increase in growth with increasing conc. of folic acid 0,2,4,6.8,10 ng per tube was recorded as equivalent increase in absorbance at 620 nm.	
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 microbiological assay of folic acid using Streptococcus faecium ATCC 8043 (earlier known as Streptococcus faecalis ATCC 8043) as the test organism.			
Storage :		Dehydrated medium- Between 2- 8°C Prepared medium– Use freshly prepared medium.			
Packing :		500 gm bottle			
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement
Sterilization					
BS022		75 g/l	6.666L	6.8 ± 0.2	NIL
		121°C / 10minutes			

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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