

**TECHNICAL SHEET**

<b>B192</b>	<b>FOLIC ACID MEDIUM, AOAC</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>Gms/lit.</b>				
Casein acid hydrolysate,vitamin free		10.00				
L-Asparagine		0.60				
L-Tryptophan		0.20				
L-Cystine hydrochloride		0.76				
Dextrose		40.00				
Adenine sulphate		0.01				
Guanine hydrochloride		0.01				
Uracil		0.01				
Xanthine		0.02				
p-Amino benzoic acid		0.001				
Pyridoxine hydrochloride		0.004				
Thiamine hydrochloride		0.0004				
Calcium pantothenate		0.0008				
Nicotinic acid		0.0008				
Biotin		0.00002				
Riboflavin (vitamin B2)		0.001				
Glutathione		0.0052				
Polysorbate 80		0.10				
Sodium citrate		52.00				
Dipotassium phosphate		6.40				
Magnesium sulphate		0.40				
Manganese sulphate		0.02				
Sodium chloride		0.02				
Ferrous sulphate		0.02				
Final pH (at 25°C) : 6.7 ± 0.2						
<b>Directions :</b>						
Suspend 11.1 grams in 100 ml purified / distilled water. Heat to boiling for 2-3 minutes. Agitate to disperse the slight precipitate evenly. For assay, dispense 5 ml medium into each assay tube (containing increasing amounts of standard or unknown) and make up the total volume to 10 ml per tube with distilled water. Sterilize by autoclaving at 15 lbs pressure (121°C) for 5 minutes. Cool to 45-50°C. Satisfactory results are obtained with Folic acid at levels of 0, 2, 4, 6, 8, 10 nanograms per assay tube (10 ml).						
<b>Principle :</b>						
This medium is used for folic acid assay as per AOAC. It provides all the nutrient required for growth of the test organism except folic acid. Medium includes carbohydrates, amino acids, salts, purine and pyrimidine bases and vitamins. As folic acid is required for the growth of the Streptococcus faecium ATCC 8043, growth will occur only if the sample being assayed contains folic acid.						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		6.7 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		Clear				
<b>(III) Q.C. Test Microbiological</b>						
Gradual increase in growth with increasing std.folic acid conc.0.2, 4, 6,8,10 ng per tube observed after 18-24 hrs.at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH				
Enterococcus hirae (8043) as per AOAC		Good				
<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>		Recommended by AOAC for microbiological assay of folic acid using Streptococcus faecium ATCC8043				
<b>Storage :</b>		Dehydrated medium- Between 2-8°C Prepared medium- Use freshly prepared medium.				
<b>Packing :</b>		500 gm bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B192</b>	111g/l	4.50L	6.7 ± 0.2	NIL	121°C / 15 minutes	

**Disclaimer:**

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