

B490	PKU TEST AGAR BASE				
Formula					
Ingredients :					
		gms/lit.			
L-Glutamic acid		0.50			
DL-Alanine		0.50			
Asparagine		0.50			
Dextrose		10.00			
Dipotassium phosphate		15.00			
Monopotassium phosphate		5.00			
Ammonium chloride		2.50			
Ammonium nitrate		0.50			
Sodium sulphate		0.50			
Magnesium sulphate		0.05			
Manganese chloride		0.005			
Ferric chloride		0.005			
Calcium chloride		0.0025			
Agar		15.00			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 50 gms in 1000ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE OR OVERHEAT. Cool to 50°C and add Bacillus subtilis spores and 3.3 mg B-2-Thienylalanine. Mix well and pour into sterile petri plates. Mix well and pour into sterile petri plates.					
Principle :					
They are defined minimal media containing the factors necessary for Bacillus subtilis growth under appropriate conditions.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Light yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	7.0 ± 0.2			
	Colour (post autoclaving/heating) :	Light yellow			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 12-16 hrs at 35 - 37°C.					
	MICROORGANISM (ATCC)	CONCENTRATION OF PHENYLALANINE		GROWTH	
	Bacillus subtilis (6633)	2%		None – poor	
	Bacillus subtilis (6633)	4%		Luxuriant	
	Bacillus subtilis (6633)	6%		Luxuriant	
	Bacillus subtilis (6633)	8%		Luxuriant	
	Bacillus subtilis (6633)	10%		Luxuriant	
	Bacillus subtilis (6633)	12%		Luxuriant	
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 estimation of phenylalanine in blood for detection of Phenylketonuria (PKU).					
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
B490	50g/l	10L	7.0 ± 0.2	Bacillus subtilis spores and 3.3 mg B-2-thienylalanine	DO NOT AUTOCLAVE OR OVERHEAT

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TECHNICAL SHEET

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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