

B482		PKU TEST AGAR WITH THIENYLALANINE			
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			
B-2-Thienylalanine		0.0033			
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.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. B-2-thiethylalanine is an inhibitor of B.subtilis growth. Phenylalanine supplied from a PKU positive patient specimen will overcome the inhibitory action of B-2-thienylalanine.					
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			
B482		50g/l		10L	
		7.0 ± 0.2		Bacillus subtilis spores	
				DO NOT AUTOCLAVE OR OVERHEAT	