

## TECHNICAL SHEET

<b>B817</b>	<b>VITAMIN FREE YEAST BASE</b>					
<b>Formula</b>						
<b>Ingredients:</b>		<b>gms/lit.</b>				
Ammonium sulphate		5.00				
Dextrose		10.00				
L-Histidine monohydrochloride		0.01				
DL-Methionine		0.02				
DL-Tryptophan		0.02				
Boric acid		0.0005				
Copper sulphate		0.00004				
Potassium iodide		0.0001				
Ferric chloride		0.0002				
Manganese sulphate		0.0004				
Sodium molybdate		0.0002				
Zinc sulphate		0.0004				
Monopotassium phosphate		1.00				
Magnesium sulphate		0.50				
Sodium chloride		0.10				
Calcium chloride		0.10				
Final pH (at 25°C): 5.6 ± 0.2						
<b>Directions:</b>						
Suspend 16.75 grams in 100 ml distilled water containing the desired vitamins. If necessary, warm slightly to effect complete solution. This is 10X medium. Sterilize by filtration and store in refrigerator. For use dilute 0.5 ml of this with 5 ml of sterile distilled water. Shake thoroughly before inoculation.						
<b>Principle:</b>						
L-Histidine monohydrochloride, DL-methionine and DL-tryptophan are the amino acid sources. Dextrose is an energy source. Sodium chloride, magnesium sulphate and ammonium sulphate are sources of ions that simulate metabolism. Monopotassium phosphate buffers the medium. The trace elements provide inorganic salts for the cultivation of yeasts. Yeast themselves are also able to carry traces of vitamins, and therefore a second inoculation in Vitamin Free Yeast Base must be performed following the same procedure as for the first inoculation. Then incubate at 25-28°C for 7 days.						
<b>QC Tests – (I)Dehydrated Medium</b>						
Colour:		White to cream				
Appearance:		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		5.6 ± 0.2				
Colour (post autoclaving/heating):		Colourless				
Clarity (post autoclaving/heating):		Clear				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after 6-7 days at 25-30°C.						
MICROORGANISM (ATCC)		GROWTH(Plain)	Growth (w/ trace elements & vitamins)			
Kloeckera apiculata (9774)		none-poor	good-luxuriant			
Saccharomyces uvarum (28098)		none-poor	good-luxuriant			
<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>		It is used for studying vitamin requirements of yeasts.				
<b>Storage:</b>		Dehydrated medium & prepared medium– Between 2 to 8°C.				
<b>Packing:</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (100g)	pH (25°C)	Supplement	Sterilization
<b>B817</b>		16.75g/l	5.97L	5.6 ± 0.2	Nil	Filtration

Refer disclaimer Overleaf

**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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