

B821	YEAST EXTRACT AGAR					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		5.00				
Yeast extract		3.00				
Agar		15.00				
Final pH (at 25°C) : 7.2 ± 0.2						
Directions :						
Suspend 23 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Yeast extract and peptic digest of animal tissue provide nitrogenous compounds, vitamin B complex and other growth nutrients. From the water sample, make a decimal dilution bank with Ringer Solution (B381) and take aliquots to 2 parallel series of plates. Pour the molten, cooled (45°C) Yeast Extract Agar and homogenize with sample. Incubate one of the series of plates at 35°C for 24 hours and the other series of plates at 20-22°C for 3 days. Separate counts are made of the organisms forming visible colonies after 24 hours at 35°C and the organisms forming colonies after 3 days at 20-22°C. Select the plates containing 30-300 colonies.						
QC Tests - (I) Dehydrated Medium						
Colour :		Cream to light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow to yellow				
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 - 24 hrs at 35 - 37°C.						
MICROORGANISM (ATCC)		GROWTH				
Escherichia coli (25922)		Luxuriant				
Staphylococcus aureus (25923)		Luxuriant				
Enterobacter aerogenes (13048)		Luxuriant				
Pseudomonas aeruginosa (27853)		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 plate count of microorganisms in water.				
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
B821	23 g/l	21.73L	7.2 ± 0.2	Nil	121°C/15 min.	