

B866	M-PA AGAR BASE				
Formula					
Ingredients :		gms/lit.			
L-lysine monohydrochloride		5.00			
Sodium chloride		5.00			
Yeast extract		2.00			
Xylose		2.50			
Sucrose		1.25			
Lactose		1.25			
Ferric ammonium citrate		0.80			
Sodium thiosulphate		6.80			
Phenol red		0.08			
Agar		15.00			
Final pH (at 25°C) : 7.1 ± 0.2					
Directions :					
Suspend 39.68 grams in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add 176 mg Sulphapyridine, 8.5 mg Kanamycin, 37.0 mg Nalidixic acid and 150 mg Cycloheximide per litre of medium. Mix well and use as desired.					
Principle :					
L-Lysine, yeast extract and the three carbohydrates viz. lactose, sucrose and xylose provide nitrogenous nutrients, vitamins, carbonaceous compounds and energy sources for the metabolism of bacteria. Salts in the medium supply essential ions while sodium chloride maintains the osmotic equilibrium. Phenol red is the pH indicator which turns yellow at acidic pH. Kanamycin and Nalidixic acid inhibit gram – positive and gram –negative bacteria respectively. Kanamycin inhibits protein synthesis while Nalidixic acid blocks the replication of DNA of susceptible gram – negative bacteria. Cycloheximide suppresses the fungal contamination.					
QC Tests – (I) Dehydrated Medium					
	Colour :	Orangish pink			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.1 ± 0.2			
	Colour (post autoclaving/heating) :	Orange red			
	Clarity (post autoclaving/heating) :	Slightly opalescent			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed after an incubation at 41.5 ± 0.5°C for upto 72 hours after addition of Sulphapyridine, Kanamycin, Nalidixic acid and Cycloheximide				
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF MEDIUM		
	Pseudomonas aeruginosa (27853)	Good-luxuriant	Pink		
	Escherichia coli (25922)	Inhibited	-		
	Klebsiella pneumoniae (13883)	Inhibited	-		
	Salmonella typhi (6539)	Inhibited	-		
	Staphylococcus aureus (25923)	Inhibited	-		
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 detection and isolation of Pseudomonas aeruginosa by membrane filter technique.				
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
B866	39.68g/l	12.60L	7.1 ± 0.2	176mg Sulphapyridine, 8.5mg Kanamycin, 37.0 mg Nalidixic acid and 150 mg Cycloheximide	121°C / 15 minutes