B916	ACTIDIONE AGAR BASE WITHOUT ACTIDIONE
Formula	
Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	5.00
Yeast extract	4.00
Dextrose	50.00
Monopotassium phosphate	0.55
Potassium chloride	0.425
Calcium chloride	0.125
Magnesium sulphate	0.125
Ferric chloride	0.0025
Magnesium sulphate	0.0025
Bromo cresol green	0.022
Agar	15.00
Final pH (at 25°C) : 5.5 ± 0.2	

Directions :

Suspend 75.25 gms 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 45°C and aseptically add 10 mg Cycloheximide. Mix well before pouring into sterile petriplates.

Principle :

Cycloheximide at a concentration of 0.001% permits the growth of bacteria and inhibits the growth of most yeasts and moulds except dermatophytes. The medium may be used for the estimation of bacterial contamination of pitching yeast. Addition of penicillin or streptomycin may be used for selective isolation of dermatophytes.

Casein enzymic hydrolysate acts as source of nitrogen while yeast extract is a rich reservoir of vitamins. Dextrose in high amount along with mineral salts at acidic pH favors sugar fermentation.

QC Tests – (I)Dehydrated Medium		
	Colour :	Light green
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	5.5 ± 0.2
	Colour (post autoclaving/heating) :	Greenish blue
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after up to 40 – 48 hrs. at 30°C.	
	MICROORGANISM (ATCC)	GROWTH
	Escherichia coli (25922)	Good to luxuriant
	Lactobacillus fermentum (9388)	Good to luxuriant
	Proteus mirabilis (25933)	Good to luxuriant
	Saccharomyces cerevisiae (9733)	Inhibited
	Saccharomyces uvarum (9080)	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 enumeration and detection of bacteria in specimens cotaining large number of yeasts and molds.
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
B916	75.25 g/l	6.64 L	5.5±0.2	Cycloheximide	121^{0}C/15 min.