

B345		SALMONELLA DIFFERENTIAL AGAR , MODIFIED			
Formula					
Ingredients :		gms/lit.			
Part A:					
Peptone special		8.00			
Yeast extract		2.00			
Sodium deoxycholate		1.00			
Sodium chloride		5.00			
B C Indicator		2.00			
Agar		12.00			
Part B:					
Propylene glycol		10.00			
Final pH (at 25°C) :		7.3 ± 0.2			
Directions :					
Suspend 10 gms of fluid Part B in 1000 ml. distilled water. Add 31 gms. of Part A. Mix well and boil to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C.Mix well before pouring into sterile petri plates.					
Principle :					
Peptone special and yeast extract supports luxuriant growth of bacteria while sodium deoxycholate inhibits gram – positive organisms rendering the medium selective for enteric microorganisms. The BC indicator turns pink in the presence of acid produced from propylene glycol. Lactose fermentation ability is determined by using an indicator which can detect the presence of enzyme β – galactosidase. Lactose fermenting (β – galactosidase producing) bacteria yield blue coloured compound that gives blue colour to the colonies. Agar is the solidifying agent.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Part A : Pinkish yellow Part B : Colourless			
	Appearance :	Part A:Homogeneous Free Flowing powder Part B : Viscous liquid			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	7.3 ± 0.2			
	Colour (post autoclaving/heating) :	Light orange			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
	Cultural characteristics observed after 24 – 48 hrs.at 35-37°C.				
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Salmonella enteritidis (13076)	Luxuriant	Red		
	Salmonella typhimurium (14028)	Luxuriant	Red		
	Salmonella typhi (6539)	Luxuriant	Colourless		
	Escherichia coli (25922)	Luxuriant	Blue		
	Klebsiella pneumoniae (13883)	Luxuriant	Blue		
	Proteus mirabilis (25933)	Luxuriant	Colourless		
	Shigella flexneri (12022)	Luxuriant	Colourless		
	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 identification and differentiation of Salmonella species from the members of Enterobacteriaceae especially Proteus species.			
Storage :		Dehydrated medium and prepared medium– Between 2 to 8°C.			
Packing :		500 gm. bottle			
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement Sterilization
B345		41g/l	12.195L	7.3 ± 0.2	NIL DO NOT AUTOCLAVE.