

<b>B320</b>	<b>SLANETZ AND BARTLEY MEDIUM</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Tryptose		20.00			
Yeast extract		5.00			
Dextrose (Glucose)		2.00			
Disodium hydrogen phosphate		4.00			
Sodium azide		0.40			
2,3,5-Triphenyl tetrazolium chloride		0.10			
Agar		15.00			
Final pH (at 25°C) :		7.2 ± 0.2			
<b>Directions :</b>					
Suspend 46.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE OR OVERHEAT. Excessive heating is detrimental. Cool to 45-50°C. Mix well and pour into sterile Petri plates.					
<b>Principle :</b>					
Tryptose and yeast extract in the medium provide the necessary nitrogen, carbon, vitamins and minerals required for the growth of organisms. Sodium azide has inhibitory effect on gram-negative organisms. Triphenyl Tetrazolium Chloride is reduced to the insoluble formazan inside the bacterial cell forming dark red-coloured colonies. When the medium is incubated at higher temperature (44-45°C), all red or maroon colonies can be considered as presumptive Enterococci.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :	Light to medium yellow				
Appearance :	Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :	7.2 ± 0.2				
Colour (post autoclaving/heating) :	Light yellow				
Clarity (post autoclaving/heating) :	Clear to slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 44 – 48 hrs. at 44-45°C.					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY			
Enterococcus faecalis (29212)	Good-luxuriant	Red or maroon			
Escherichia coli (25922)	Inhibited	--			
<b>Precautions :</b>	<ol style="list-style-type: none"> <li>1. For Laboratory Use.</li> <li>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.</li> <li>3. Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.</li> </ol>				
<b>Limitations :</b>	<ol style="list-style-type: none"> <li>1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.</li> <li>2. Further biochemical testing is required for identification of species.</li> </ol>				
<b>Use:</b>	For detection and enumeration of faecal Streptococci by membrane filter technique.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B320</b>	46.5g/l	10.752L	7.2 ± 0.2	NIL	DO NOT AUTOCLAVE OR OVERHEAT.