BS017	**B12 ASSAY AGAR (USING E.COLI MUTANT CULTURE) (HARRISON ET AL. MEDIUM)**				
Formula					
Ingredients:					
A complete dehydrated medium for microbiological assay of Vitamin B12 contains all essential nutritives except Vitamin B12 for the growth of E.coli mutant 113-3 Davis ATCC11105. The additon of B12 in specified increasing concentration gives a growth response, which can be measured with zone reader.					
Final pH (at 25°C): 7.2 ± 0.2					
Directions:					
Suspend 51.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Mix well to distribute slight precipitate evenly. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Generally satisfactory results are obtained with B12 at levels ranging from 0 to 300 ng per ml.					
Principle:					
B12 Assay Agar is dehydrated medium devoid of Vitamin B12 but containing all the nutrients essential for the growth of E. coli mutant 113-3 Davis ATCC-11105. Incorporation of Vitamin B12 in specified increasing amounts gives a growth response that can be measured by the diameter of the zone of growth around the disc or cup containing Vitamin B12.					
QC Tests – (I)Dehydrated Medium					
	Colour:	Cream to yellow			
	Appearance:	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	7.2 ± 0.2			
	Colour (post autoclaving/heating):	Medium amber			
	Clarity (post autoclaving/heating):	Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
	Cultural characteristics observed after18-24 hours at 35-37°C.				
	Microbiological assay of Vitamin B12 was carried out using E.coli mutant 113-3 Davis ATCC 11105 as a test organism. Good growth was obtained around cups containing Vitamin B12 showing an increase in diameter of zone of growth in proportion the increasing Vit B12 concentration in the cup.				
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:	It is recommended for the microbiological assay of Vitamin B12 by plate method using E.coli mutant 113-3 Davis ATCC 11105 as a test organism.				
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
BS017	51.5 g/l	9.70L	7.2 ± 0.2	None	121^0C / 15 minutes