

BS019	B12 CULTURE AGAR (E.COLI MAINTENANCE MEDIUM)				
Formula					
Ingredients:			gms/litre		
Casein enzymic hydrolysate			5.00		
Yeast extract			5.00		
Liver extract			0.05		
Sucrose			12.00		
Monopotassium phosphate			0.50		
Magnesium sulphate			0.20		
Sodium chloride			0.10		
Ferrous sulphate			0.001		
Agar			15.00		
Final pH (at 25°C): 7.0 ± 0.2					
Directions:					
Suspend 37.85 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.					
Principle:					
Casein enzymic hydrolysate provides nitrogen and amino acids for the growth of E. coli 113.3. Yeast extract is vitamin source in the medium while sucrose is carbon and energy source. Potassium salt provides buffering capacity to the medium and sodium, magnesium and ferrous salts control permeability of bacterial cells. Liver extract enriches the medium for growth of E. coli as well as inhibits gram positive bacteria.					
QC Tests - (I) Dehydrated Medium					
	Colour:	Cream to yellow			
	Appearance:	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.0 ± 0.2			
	Colour (post autoclaving/heating):	Yellow			
	Clarity (post autoclaving/heating):	Slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18-48 hours at 35-37°C.					
	ORGANISM (ATCC)	GROWTH			
	Escherichia coli (11105)	luxuriant			
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 propagation, cultivation and maintenance of Escherichia coli mutant 113. 3 Davis ATCC 11105 used in microbiological assay of Vitamin B12.				
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
BS019	37.85 g/l	13.21L	7.0 ± 0.2	None	121°C / 15 minutes

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

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