

TECHNICAL SHEET

B1127		TRYPTONE BROTH (TRYPTONE WATER)			
Formula					
Ingredients :			gms/lit.		
Casein enzymic hydrolysate			10.00		
Sodium chloride			5.00		
Final pH (at 25°C): 7.5 ± 0.2					
Directions :					
Suspend 15 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense into tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
Principle :					
Casein enzymic hydrolysate is a good substrate for indole production because of its high tryptophan content. Certain organisms breakdown the amino-acid tryptophan with the help of enzymes that mediate the production of indole by hydrolytic activity. The indole produced can be detected by either Kovac's or Ehrlich's reagent. Indole combines with the aldehyde present in the above reagent to give red colour in the alcohol layer. The alcohol layer extracts and concentrates the red colour complex.					
QC Tests – (I)Dehydrated Medium					
		Colour :		Cream to yellow	
		Appearance :		Homogeneous Free Flowing powder	
(II)Rehydrated medium					
		pH (post autoclaving/heating) :		7.5 ± 0.2	
		Colour (post autoclaving/heating) :		yellow	
		Clarity (post autoclaving/heating) :		Clear	
(III)Q.C. Test Microbiological					
		Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours. Add 0.2 to 0.3ml of Kovac's Reagent (BA068) to each tube after incubation.			
		MICROORGANISM (ATCC)		GROWTH	
		Escherichia coli (25922)		Luxuriant	
		Enterobacter aerogenes (13048)		Luxuriant	
		Klebsiella pneumoniae (13383)		Luxuriant	
				INDOLE REACTION	
				Positive reaction, red ring at the interface of the medium	
				Negative reaction, no colour development / cloudy ring	
				Negative reaction, no colour development / cloudy ring	
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 the detection of indole production by coliforms from clinical and non-clinical samples.			
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
B1127		15g/L	33.33L	7.5 + 0.2	NIL
					121°C /15 min.

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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