BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1411	**TRYPTONE WATER**
Formula	
Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	20.00
Sodium chloride	5.00
Final pH (at 25°C) : 7.5 ± 0.2	
Directions :	
Suspend 25 gms in 1000 ml. distilled water. Heat if necessary to dissolve the medium completely. Dispense into tubes & 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 Indole Reagent(BA068) to each tube after incubation.	
MICROORGANISM (ATCC)	INDOLE REACTION
Escherichia coli (25922)	positive reaction, red ring at the interface of the medium
Enterobacter aerogenes (13048)	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 :	It is used for the detection of indole production by coliforms as per International Organization for Standardization (ISO), 1993, Draft ISO/DIS 9308-1.
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
B1411	25g/L	20.0 L	7.5 ± 0.2	NIL	121^0C /15 min.