BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1412	**TRYPTONE TRYPTOPHAN MEDIUM**
Formula	
Ingredients:	**gms./lit**
Tryptone	10.00
DL-Tryptophan	1.00
Sodium chloride	5.00
Final pH (at 25°C) : 7.5 ± 0.2	
Directions :	
Suspend 16 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 :	
Tryptone is a good substrate for indole production because of its high tryptophan content. Certain organism's 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(BA068). 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 light yellow
Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	7.5 ± 0.2
Colour (post autoclaving/heating) :	Light yellow
Clarity (post autoclaving/heating) :	Clear
(III)Q.C. Test Microbiological	
Cultural characteristics observed after 18-24 hrs. at 35-37°C.	
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
Escherichia coli 0157:H7 (NCTC12900)	Positive reaction, red ring at the interface of the medium

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 :	Tryptone tryptophan medium is recommended for detection of indole production. as per (ISO)Draft: 16654:1999
Storage :	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation(500g)	pH (25°C)	Supplement	Sterilization
B1412	16 g/l	31.25L	7.5 ± 0.2	NIL	121^{0}C /15 min.