

**TECHNICAL SHEET**

<b>B1128</b>	<b>TRYPTOPHAN MEDIUM</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Casein enzymichydrolysate		10.00				
Sodium chloride		5.00				
DL-Tryptophan		1.00				
Final pH (at 25°C) : 7.5 ± 0.2						
<b>Directions :</b>						
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.						
<b>Principle :</b>						
Casein enzymichydrolysate provides carbonaceous and nitrogenous sources required for the growth of microorganisms. Tryptophan is an amino acid, which serves as a substrate to study indole reaction. Certain microorganisms breakdown tryptophan with the help of the enzyme tryptophanase that mediate the production of indole by hydrolytic activity. The indole produced can be detected by Kovacs or Ehrlichs 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.						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.5 ± 0.2				
Colour (post autoclaving/heating) :		Yellow				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 – 48 hrs. at 35-37 °C.						
MICROORGANISM (ATCC )		GROWTH		INDOLE		
Enterobacteraerogenes (13048)		Luxuriant		-VE		
Escherichia coli (25922)		Luxuriant		+VE Red ring at interface of medium		
Escherichia coli 0157:57 (NCTC 12900)		Luxuriant		+VE Red ring at interface of medium		
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		For detection of Indole production				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1128</b>		16g/l	31.25L	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 BIOMARKLABORATORIES publications.

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