

**TECHNICAL SHEET**

<b>B1475</b>	<b>UREA INDOLE MEDIUM</b>			
<b>Formula</b>				
<b>Ingredients:</b>	<b>gms/lit.</b>			
L- Tryptophan	3.00			
Sodium chloride	5.00			
Dipotassium phosphate	1.00			
Monopotassium phosphate	1.00			
Urea	20.00			
Phenol red	0.025			
Final pH (at 25°C):6.8± 0.2				
<b>Directions:</b>				
Suspend 30.00 grams in 1000 ml distilled water. Mix well. Add 10 ml of 95% ethanol.Dissolve the medium completely. Dispense in 1 - 5 ml amounts into sterile tubes. AVOID OVERHEATING. DO NOT AUTOCLAVE.				
<b>Principle:</b>				
L-Tryptophan is an essential amino acid and is converted to skatole and indole. Sodium chloride maintains the osmotic balance. Potassium phosphates act as a buffer system. Urea is a source of nitrogen for those organisms producing urease. Phenol red is the pH indicator.Indole production is determined by adding a few drops of Kovacs Reagent (BA068). A positive test is indicated by the development of a red color in the reagent layer. Tryptophan deaminase (TDA) is demonstrated by adding to a 24 hours culture a few drops of a 30% solution, diluted 1:3. of iron perchloride. The appearance of a brown or red-brown color indicates a positive TDA.				
<b>QC Tests - (I)Dehydrated Medium</b>				
Colour:	Light pink			
Appearance:	Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>				
pH (post autoclaving/heating) :	6.8 ± 0.2			
Colour (post autoclaving/heating) :	Orange			
Clarity (post autoclaving/heating) :	Clear			
<b>(III)Q.C. Test Microbiological</b>				
Cultural characteristics observed after 18 -24 hrs at 35-37°C.				
MICROORGANISM (ATCC)	GROWTH	Urease	Indole	
Escherichia coli (25922)	luxuriant	-	+	
Klebsiella pneumoniae ( 13883)	luxuriant	+	-	
Proteus vulgaris(13315)	luxuriant	+	+	
Salmonella typhimurium(14028)	luxuriant	-	-	
*Yersinia enterocolitica ( 23715)	luxuriant	+	±	
*Incubate at 30°C for 24 hours				
<b>Precautions :</b>	1. For Laboratory Use.			
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.			

Refer disclaimer Overleaf

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<b>Limitations :</b>	1. 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>	To differentiate micro-organisms especially Enterobacteriaceae on the basis of their ability to hydrolyze urea and indole production. This medium is used for the presumptive identification of <i>Yersinia enterocolitica</i> by ISO 10273.				
<b>Storage:</b>	Dehydrated medium-at 2 to 8 ° C Prepared mediums- 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>B1475</b>	30g/l	16.66 L	6.8 ± 0.2	NIL	Heating

**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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