

**TECHNICAL SHEET**

<b>LM009</b>	<b>MIU Medium</b>			
<b>Formula</b>				
<b>Ingredients:</b>		<b>gms/lit.</b>		
Casein enzymic hydrolysate		10.00		
Dextrose		1.00		
Sodium chloride		5.00		
Phenol red		0.01		
Agar		2.00		
BF048		1.00		
<b>Directions:</b> Label the ready to use bottle (LM009) bottle. Stab the sample and incubate at specified temperature and time.				
<b>Principle:</b>				
MIU Medium Base is formulated to detect motility, urease and indole production in single tube. Casein Enzymic Hydrolysate provides amino acids and other nitrogenous substance. Dextrose is the fermentable carbohydrate. Sodium chloride maintains osmotic equilibrium. Phenol red is the pH indicator. When urea is utilized, ammonia is formed during incubation which makes the medium alkaline showing a pink – red color by the change in phenol red indicator. Indole is produced from tryptophan present in casein enzymic hydrolysate. The Indole produced combines with the aldehyde present in the Kovac’s reagent to form a red complex. Motile organisms show either diffused growth or turbidity away from stab line.				
<b>(I) QC Tests</b>				
Color:		Sterile MIU Medium in glass bottle.		
Appearance:		Orange colored opalescent butts in glass bottle.		
<b>(II) Sterility test</b>		Passes release criteria		
<b>(III) Q.C. Test Microbiological</b>				
Cultural characteristics observed after incubation at 35-37°C for 18-24 hours.				
MICROORGANISM (ATCC)	Growth	MOTILITY	INDOLE	UREASE
Escherichia coli 25922	Luxuriant	Positive	Positive	Negative
Klebsiella pneumoniae 13883	Luxuriant	Negative	Negative	Weakly positive
Proteus vulgaris 13315	Luxuriant	Positive	Positive	Positive
S. serotype typhimurium	Luxuriant	Positive	Negative	Negative
Proteus mirabilis 25933	Luxuriant	Positive	Negative	Positive

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<b>Precautions :</b>	1. In Vitro diagnostic use only. 2. Read the label before opening the container
<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>	For detection of motility, urease and indole production.
<b>Storage:</b>	Store between 2-8 °C. Use before expiry date on the label.
<b>Packing:</b>	10ml in 25/50 Glass bottle.

**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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