

**TECHNICAL SHEET**

<b>LM006</b>	<b>Indole Nitrate Broth</b>			
<b>Formula</b>				
<b>Ingredients:</b>		<b>gms/lit.</b>		
Tryptone		20.00		
Disodium phosphate		2.00		
Dextrose		1.00		
Potassium nitrate		1.00		
Agar		1.00		
<b>Directions:</b>				
Label the ready to use bottle (LM006). Inoculate the sample and incubate at specified temperature and time.				
<b>Principle:</b>				
Indole Nitrate Medium (Tryptone Nitrate Medium), due to the nutritive content, supports growth of aerobes, microaerophiles, and facultative as well as obligate anaerobes. It serves a dual purpose of detecting indole production and nitrate reduction in a wide range of microorganisms. Casein enzymic hydrolysate contains tryptophan, which is acted upon by certain microorganisms, resulting in the production of indole. Potassium nitrate acts as the substrate for determining nitrate reduction by microorganisms. Indole production can be tested by the addition of Kovacs Reagent (BA068). The formation of a deep red color in the reagent layer after gentle agitation indicates positive indole test.				
<b>(I) QC Tests</b>				
Color:		Sterile clear- slightly opalescent, Indole Nitrate broth in glass bottle.		
Appearance:		Medium amber coloured medium 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 18-48 hours.				
MICROORGANISM (ATCC)	Growth	INDOLE	NITRATE REDUCTION	GROWTH UNDER ANAEROBIC CONDITION
Escherichia coli 25922	Luxuriant	Positive	Positive	-
Staphylococcus aureus 25923	Luxuriant	Negative	Positive	-
Clostridium perfringens 12924	-	Negative	Positive	Luxuriant
Clostridium sordellii 9714	-	Negative	Negative	Luxuriant
Clostridium sporogenes 11437	-	Positive	Negative	Luxuriant

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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 identification of microorganisms by means of nitrate reduction and indole production.
<b>Storage:</b>	Store between 15-25 °C. Use before expiry date on the label.
<b>Packing:</b>	5ml 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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