

**TECHNICAL SHEET**

<b>B1024</b>	<b>ENDO AGAR , MODIFIED</b>	
<b>Formula</b>		
<b>Ingredients :</b>	<b>gms/lit.</b>	
Peptic digest of animal tissue	10.00	
Lactose	10.00	
Dipotassium phosphate	2.50	
Sodium sulphite	3.30	
Basic fuchsin	0.30	
Agar	12.5	
Final pH (at 25°C) :	7.4 ± 0.2	
<b>Directions :</b>		
Suspend 38.6 gms in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well before pouring into sterile petri plates.		
<b>Principle :</b>		
Lactose – fermenting bacteria produce acetaldehyde. The aldehyde is fixed by the sodium sulfite and in the presence of fuchsin forms red colonies. A sheen is produced by rapid lactose fermenting organisms. Lactose non – fermenting bacteria form clear, colorless colonies. Endo Agar contains Peptone as a source of carbon, nitrogen, vitamins and minerals. Lactose is the carbohydrate source. Basic Fuchsin in the presence of Sodium sulfite produces the red colonies Agar is the solidifying agent.		
<b>QC Tests – (I) Dehydrated Medium</b>		
Colour :	Light purple	
Appearance :	Homogeneous Free Flowing powder	
<b>(II) Rehydrated medium</b>		
pH (post autoclaving/heating) :	7.4 ± 0.2	
Colour (post autoclaving/heating) :	Orangish pink	
Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel with fine precipitate	
<b>(III) Q.C. Test Microbiological</b>		
Cultural characteristics observed after 18-24 hrs. at 35- 37°C.		
MICROORGANISM (ATCC )	GROWTH	COLONIES
Enterobacter aerogenes (13048)	Luxuriant	Pink, mucoid
Escherichia coli (25922)	Luxuriant	Pink to rose red with metallic sheen
Salmonella typhi ( 6539 )	Luxuriant	Colourless to pale pink
Shigella sonnei (25931)	Luxuriant	Colourless to pale pink
Klebsiella pneumoniae (13883 )	Luxuriant	Pink, mucoid
Proteus vulgaris (13315 )	Luxuriant	Colourless to pale pink
Pseudomonas aeruginosa (27853)	Luxuriant	Colourless irregular
Streptococcus faecalis (29212 )	None-poor	Pink, small
Staphylococcus aureus (25923)	Inhibited	---
<b>Precautions :</b>	<ol style="list-style-type: none"> <li>1. For Laboratory Use.</li> <li>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.</li> <li>3. HARMFUL. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) :Liver, Thyroid.</li> </ol>	

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. 2. If the medium is to be used the same day it is rehydrated, it does not need to be autoclaved. Boil to dissolve completely before dispensing into plates.				
<b>Use :</b>	<b>B1024:</b> For detection and isolation of coliforms and other enteric bacilli.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium – 2 to 8°C. Away from light to avoid photooxidation.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1024</b>	38.6g/l	12.95L	7.4 ± 0.2	Nil	121°C / 15 minutes

**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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