

**TECHNICAL SHEET**

<b>B514</b>	<b>ENDO AGAR</b>	
<b>Formula</b>		
<b>Ingredients :</b>	<b>gms/lit.</b>	
Peptone	10.00	
Lactose	10.00	
Dipotassium phosphate	3.50	
Sodium sulphite	2.50	
Basic fuchsin	0.50	
Agar	15.00	
Final pH (at 25°C) :	7.5 ± 0.2	
<b>Directions :</b>		
Suspend 41.5 grams in 1000 ml distilled water. Heat to boiling 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. If the solidified culture medium is somewhat too red, then to remove the colour add a few drops (max. 1 ml/litre) of a freshly prepared 10% Sodium sulphite solution and boil.		
<b>Principle :</b>		
The medium contains peptone which provide nitrogen, carbon, vitamins and minerals required for bacterial growth. Sodium sulphite and basic fuchsin make this medium selective by suppressing gram-positive organisms. Coliforms produce pink colonies on fermentation of lactose while lactose non-fermenters produce colourless colonies on the medium. With Escherichia coli, this reaction is very pronounced as the fuchsin crystallizes, exhibiting a permanent greenish metallic luster (fuchsin luster) to the colonies.		
<b>QC Tests – (I) Dehydrated Medium</b>		
Colour :	Light pink to purple	
Appearance :	Homogeneous Free Flowing powder	
<b>(II) Rehydrated medium</b>		
pH (post autoclaving/heating) :	7.5 ± 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)	Good-luxuriant	Pink, mucoid
Escherichia coli (25922)	Good-luxuriant	Pink to rose red with metallic sheen
Salmonella typhi (6539)	Luxuriant	Colourless to pale pink
Klebsiella pneumoniae (13883)	Good-luxuriant	Pink, mucoid
Proteus vulgaris (13315)	Good-luxuriant	Colourless to pale pink
Pseudomonas aeruginosa (27853)	Good-luxuriant	Colourless irregular
Streptococcus faecalis (29212)	None-poor	Pink, small
Staphylococcus aureus (25923)	Inhibited	---
Bacillus subtilis (6633)	Inhibited	---
Enterobacter cloacae (13047)	Good	Pink
Salmonella Typhimurium (14028)	Good-luxuriant	Colourless
Salmonella Enteritidis (13076)	Good-luxuriant	Colourless
Shigella flexneri(12022)	Good-luxuriant	Colourless
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<b>Precautions :</b>	<p>1. For Laboratory Use.</p> <p>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.</p> <p>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.</p>				
<b>Limitations :</b>	<p>1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.</p> <p>2.Overheating of the medium must be avoided, as it may destroy the productivity of the medium.</p> <p>3. Medium should be stored away from light to avoid photo-oxidation and decrease productivity of the medium.</p>				
<b>Use:</b>	For the confirmation of the presumptive test for members of the coliform group.				
<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>B514</b>	41.5g/l	12.048L	7.5 ± 0.2	Nil	121°C / 15 minutes