

**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.		
Caution: Basic Fuchsin is a potential Carcinogen and care should be taken to avoid inhalation of the powdered dye and contamination of the skin.		
<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

**TECHNICAL SHEET**

	Salmonella Typhimurium (14028)	Good-luxuriant	Colourless
	Salmonella Enteritidis (13076)	Good-luxuriant	Colourless
	Shigella flexneri(12022)	Good-luxuriant	Colourless
			Page 01 of 01
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 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.		
<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.Overheating of the medium must be avoided, as it may destroy the productivity of the medium. 3. Medium should be stored away from light to avoid photo-oxidation and decrease productivity of the medium.		
<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)
<b>B514</b>	41.5g/l	12.048L	7.5 ± 0.2
			Supplement
			Nil
			Sterilization
			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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.