

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B215	KOSER CITRATE MEDIUM					
Formula						
Ingredients :		Gms/lit.				
Sodium ammonium phosphate		1.50				
Monopotassium phosphate		1.00				
Magnesium sulphate		0.20				
Sodium citrate		3.00				
Final pH (at 25°C) : 6.7 ± 0.2						
Directions :						
Suspend 5.7 grams in 1000 ml distilled water. Dispense into tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Koser Citrate Medium is prepared with chemically pure salts and tested to determine that no sources of carbon (other than sodium citrate) or nitrogen (other than ammonium salts) are present. Bacteria that are able to use citrate as their carbon source will grow in the medium and cause turbidity.						
QC Tests – (I) Dehydrated Medium						
Colour :		White to cream				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		6.7 ± 0.2				
Colour (post autoclaving/heating) :		Colourless				
Clarity (post autoclaving/heating) :		Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18- 24 hrs at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH	CITRATE UTILISATION			
Enterobacter aerogenes (13048)		Luxuriant	Positive reaction,turbidity			
Enterobacter cloacae (23355)		Luxuriant	Positive reaction,turbidity			
Escherichia coli (25922)		None- poor	Negative reaction, no turbidity			
Klebsiella pneumoniae (13883)		Luxuriant	Positive reaction,turbidity			
Precautions :		<ol style="list-style-type: none"> For Laboratory Use. Follow proper, established laboratory procedures in handling and disposing of infectious materials. IRRITANT. 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. 				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :		For differentiation of Escherichia coli and Enterobacter aerogenes on the basis of citrate utilization.				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B215	5.7g/l		87.71L	6.7 ± 0.2	NIL	121°C / 15 minutes