BIOMARK Laboratories-INDIA www.biomarklabs.com **TECHNICAL SHEET**

B1121	31121 KETOGLUCONATE BROTH						
Formula							
Ingredients : gms/lit.							
Potassium gluconate 20.00							
Potassium dihydrogen phosphate 5.40							
Potassium nitrate 2.00							
Final pH (at 25°C) : 6.5 <u>+</u> 0.2							
Directions :							
Suspend 27.4 grams in 1000 ml distilled water. Mix thoroughly. Filter sterilize the medium and aseptically distribute intosterile screw-capped tubes.							
Principle :							
The medium contains potassium gluconate, which is used as sole carbon source, and potassium nitrate, which is the nitrogensource.Inoculate heavy inoculum into 1ml of the sterile, dispensed medium. Incubate at 37°C for 48 hrs. Then add 1ml of Benedictsreagent for reducing sugars, place the tube in a boiling water bath for 10 minutes. Observe for the production of a colouredprecipitate of cuprous oxide. Organisms capable of oxidative metabolism use potassium gluconate as their sole carbon source, leading to the accumulation of2-ketogluconate in the medium. 2-ketogluconate reduces copper sulphate, when heated, to an insoluble cuprous oxide, which isprecipitated out as yellow to orange-to-orange red precipitate. The colour produced depends on the amount of 2- ketogluconateaccumulated, the greater the amount, the more orange-to-orange red the colour becomes.							
	C Tests – (I)Dehydrated Medium						
Colour :			White to cream				
Appearance :	Homogeneous Free Flowing powder						
(II)Rehydrated medium							
pH (post autocl	6.5 ± 0.2						
Colour (post a	(post autoclaving/heating) :			Colourless			
Clarity (post a	Clear	Clear					
(III)Q.C. Test Microbiological							
Cultural characteristics observed after 18 – 24hrs at 35-37°C (Reaction : On heating in a boiling water bath for 10 minutes after addition of Benedicts reagent)							
MICROORGANIS	SM (ATCC)	GRO	WTH R	REACTION			
	Citrobacterfreundii (8090) go		d P	Positivereaction, greento orangeprecipitate			
Escherichia coli (25922) Fa			-good N	d Negativereaction, blue colour of the reagent is changed			
Klebsiella pneumoniae (13883) goo			d P	Positivereaction, greento orangeprecipitate			
Pseudomonas aeruginosa (10145) good				Positivereaction, greento orangeprecipitate			
Precautions : 1. For Laboratory Use.							
	2. Follow proper, established laboratory procedures in handling and disposing of						
	infectious materials.						
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 :		used for identifying bacteria that can utilize a-ketogluconate to form 2-					
_	ketogluconate.						
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing :	500 gm. bottle						
Product profile: Reconstitution Quant		Quantity Preparat	on ion (500g)	pH (25°C)	Supplement	Sterilization	
B1121	27.4 g/l		8.2 L	6.5 ± 0.2	Nil	121ºC / 15 minutes	
Disclaimer:	וני					-,	

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