

B538	GLUCONATE TEST BROTH					
Formula						
Ingredients:			gms/lit.			
Casein peptone			1.50			
Yeast extract			1.00			
Dipotassium hydrogen phosphate			1.00			
Potassium gluconate			40.00			
Final pH (at 25°C): 7.0 ± 0.2						
Directions:						
Suspend 43.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense 2 ml in screw cap bottles. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle:						
Casein peptone and yeast extract provides nitrogen and other nutrients necessary to support bacterial growth. Dipotassium hydrogen phosphate buffers the medium. The basis of the test is the change from gluconate, (a non-reducing compound) to 2-keto-gluconate (a reducing compound), which is tested using a suitable reagent (Benedicts reagent).						
QC Tests – (I) Dehydrated Medium						
Colour:			Off-white to light yellow			
Appearance:			Homogeneous Free Flowing powder			
(II) Rehydrated medium						
pH (post autoclaving/heating) :			7.0 ± 0.2			
Colour (post autoclaving/heating):			Light straw			
Clarity (post autoclaving/heating):			clear			
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18-48hours at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH		Gluconate test		
Escherichia coli (25922)		luxuriant		Negative, no colour change		
Pseudomonas aeruginosa(27853)		luxuriant		positive, yellow to orange red precipitate		
Citrobacter freundii (8090)		luxuriant		negative, no colour change,		
Klebsiella pneumoniae (13383)		luxuriant		positive, yellow to orange red precipitate		
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:		It is used for detecting gluconate-oxidizing microorganisms.				
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
B538		43.5g/l	11.49L	7.0 ± 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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