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	121^0C / 15 minutes

Rev: December 2020