

**TECHNICAL SHEET**

<b>B1037</b>	<b>FERMENTATION MEDIUM FOR NEISSERIA</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Casein enzymic hydrolysate		20.00				
Cystine		0.50				
Sodium chloride		5.00				
Sodium sulphate		0.50				
Phenol red 0.017						
Agar		3.50				
Final pH (at 25°C) : 7.5 ± 0.2						
<b>Directions :</b>						
Suspend 29.52 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense and sterilize by autoclaving at 118°C for 15 minutes. Cool to around 40-45°C and add membrane filter sterilized sugar solutions to final concentration of 1%.						
<b>Principle :</b>						
Casein enzymic hydrolysate supplies the necessary nitrogenous nutrients to the organisms. Cystine acts as an amino acid source as well as a reducing agent, which can remove (bind) molecular oxygen thereby preventing the accumulation of peroxides which are lethal to certain microorganisms. Small amount of agar in the medium reduces convection currents in the medium and hence contributes to maintaining anaerobic conditions in the depth of the tubes. Sodium chloride maintains the osmotic equilibrium in the medium. Phenol red is the pH indicator, which turns yellow at acidic pH. Observe the inoculated tubes after every 4 hours						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Light yellow to light pink				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.5 ± 0.2				
Colour (post autoclaving/heating) :		Straw				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent gel				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed with added 1% dextrose after an incubation at 35-37°C for 18-24 hours.						
MICROORGANISM (ATCC )	GROWTH	ACID WITH ADDED DEXTROSE	MOTILITY			
Escherichia coli (25922)	Luxuriant	positive reaction ,yellow colour	positive,growth away from stabline causing turbidity			
Neisseria gonorrhoeae (19424)	Luxuriant	positive reaction ,yellow colour	negative,growth along the stabline, surrounding medium remains clear			
Streptococcus pneumoniae (6303)	Luxuriant	positive reaction ,yellow colour	negative,growth along the stabline, surrounding medium remains clear			
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<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.				
<b>Use :</b>		It is recommended for studying fermentation reaction of fastidious microorganism such as Neisseriae.				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
<b>Packing :</b>		500 gm bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1037</b>		29.52 g/l	16.937 L	7.5 ± 0.2	1% sugar	118°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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