

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1234	NYC AGAR BASE
Formula	
Ingredients :	gms/lit.
Proteose peptone	15.00
Corn starch	1.00
Glucose	5.00
Sodium chloride	5.00
Dipotassium hydrogen phosphate	4.00
Potassium dihydrogen phosphate	1.00
Agar	20.00
Final pH (at 25°C) : 7.4 ± 0.2	
Directions :	
Suspend 25.50 grams in 320 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Avoid overheating. Cool to 45-50°C and add aseptically 100 ml of sedimented horse blood cells and 60 ml of citrated horse plasma along with rehydrated contents of 1 vial of NYC Supplement (BF125) and 1 vial of Yeast Autolysate Supplement (BF126). Mix well and pour into sterile Petri plates.	
Principle :	
Proteose peptone, horse plasma, haemoglobin provide nutrients for the growth of <i>N. gonorrhoeae</i> and <i>N. meningitidis</i> . Phosphate buffers the medium. The selective supplement added contains the antibiotics vancomycin, colistin, nystatin and trimethoprim, to suppress the accompanying flora. Vancomycin is inhibitory for gram-positive bacteria. Colistin inhibits gram-negative bacteria, including <i>Pseudomonas</i> species, while <i>Proteus</i> is inhibited by trimethoprim. The combination of trimethoprim and colistin acts synergistically against gram-negative bacilli. Starch neutralizes the toxic metabolites produced by <i>Neisseria</i> . The yeast autolysate supplement fulfils the CO ₂ requirements needed to enhance <i>Neisseria</i> growth. Yeast contains oxaloacetic acid which is metabolized by gonococci to produce sufficient CO ₂ for growth of capnophilic gonococci. Also, presence of yeast autolysate reduces the lag phase of growth of <i>Neisseria</i> , thus enhancing both size and number of colonies.	
QC Tests - (I) Dehydrated Medium	
Colour :	Cream to yellow
Appearance :	Homogeneous Free Flowing powder
(II) Rehydrated medium	
pH (post autoclaving/heating) :	7.4 ± 0.2
Colour (post autoclaving/heating) :	Light yellow
Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III) Q.C. Test Microbiological	
Cultural characteristics observed after in presence of 5-10% CO ₂ and 70% humidity with added sedimented horse blood cells and citrated horse plasma along with rehydrated contents of 1 vial of NYC Supplement (BF125) and 1 vial of Yeast Autolysate Supplement (BF126), after an incubation at 35-37°C for 40-48 hours.	
MICROORGANISM (ATCC)	GROWTH
<i>Haemophilus influenzae</i> (19418)	good-luxuriant
<i>Neisseria gonorrhoea</i> (19424)	good-luxuriant
<i>Neisseria meningitidis</i> (13090)	good-luxuriant
<i>Streptococcus pneumoniae</i> (6303)	good-luxuriant
<i>Streptococcus pyogenes</i> (19615)	good-luxuriant
<i>Pseudomonas aeruginosa</i> (27853)	none-poor
<i>Proteus mirabilis</i> (13883)	none-poor
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 recommended for the selective isolation of gonococci.
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.
Packing :	500 gm. bottle

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Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1234	51.0g/l	9.80 L	7.4 ± 0.2	NYC Supplement (BF125) and 1 vial of Yeast Autolysate Supplement (BF126)	121°C / 15 minutes