

PRODUCT INFORMATION

Product Type: Divided Petri Dishes 90mm (DD)

Cat No. DD005 - NYC MEDIUM / CHOCOLATE BLOOD AGAR

Intended Use:

Medium for detection of *Neisseria Gonorrhoeae* and *Neisseria Meningitis*

Principles and uses:

NYC medium: also, readily supports the growth of *Neisseria Gonorrhoeae* and *Neisseria Meningitis*. New York City (NYC) medium was developed by a group of American clinical microbiologists from the New York City Department of Health for the rapid recovery of pathogenic *Neisseria* infections. This medium provides rapid (24 hrs), luxuriant and highly selective growth of pathogenic *Neisseria*. In clinical field trials, NYC medium has been tested in parallel with Thayer Martin and Transgrow. The results⁽¹⁾ indicate that NYC medium is superior in terms of recoveries on *N. gonorrhoeae* as well as of incidence and degree of contamination. Vancomycin at a level of 2µg/ml, together with amphotericin B, colistin and trimethoprim lactate, maintains a high degree of selectivity for the medium without loss of fastidious gonococci.

Use: Each clinical specimen is collected on a swab that is placed directly on the medium.

NYC medium Reference:

1. Y.C Faur, M.H. Weisburd, M. E. Wilson & P.S. May; Health Lab. Science, 10 (1973) 44. Y.C. Faur, M.H. Weisburd & M.E. Wilson; Health Lab Science 10 (1973), 55. Y.C. Faur, M.H. Weisburd & M.E. Wilson, Health Lab Science 10 (1973) 61.

Chocolate Blood Agar: Casein and meat peptones provide nitrogen, amino acids, and peptides necessary for bacterial growth. Dipotassium and monopotassium phosphates are buffers which serve to control pH changes resulting from amine production; such pH changes can be detrimental to organism survival. Cornstarch neutralizes toxic fatty acids. Enrichment supplies NAD, vitamins, amino acids, coenzymes, dextrose, ferric ions, and other growth factors needed to cultivate *Neisseria* species.

Composition:

NYC MEDIUM

Peptocomplex (Mixture of Peptones) - 15g/L

Agar - 15g/L

Corn-Starch - 1 g/L

KH₂PO₄ - 1g/L

K₂HPO₄, 3H₂O - 5.23g/L

Equine Serum - 120ml/L

Sodium Chloride - 5gr/L

DMSO - Dimethyl Sulfoxide - 0.130ml/L

Glucose - 5g/L

Dry yeast - 5g/L

Additives Supplements:

Vitamin B12: 0.01 mg/L

L-Glutamine: 10 mg/L

Adenine: 1 mg/L

Guanine HCl: 0.03 mg/L
p-Aminobenzoic acid: 0.013 mg/L
L-Cystine: 1.1 mg/L
NAD (Coenzyme 1): 0.25 mg/L
Coccarboxylase: 0.1 mg/L
Ferric nitrate: 0.02 mg/L
Thiamine HCl: 0.003 mg/L
L-Cysteine HCl: 25.9 mg/L
Glucose 0.25g/L
Vancomycin 3 mg/L
Colistin 7.5 mg/L
Nystatin 12500 U/L
Trimethoprim 5 mg/L
Amphotericin B 1.25mg/L

Growth factors Supplements

CHOCOLATE BLOOD AGAR

Casein Peptone - 7.5 g/L
Corn Starch - 1.0 g/L
Meat Peptone - 7.5 g/L
Monopotassium Phosphate - 1.0 g/L
Sodium Chloride - 5.0 g/L
Dipotassium Phosphate - 4.0 g/L
Agar - 10.0 g/L
Donor Sheep Blood - 93.75 ml/L

Enrichment

Vitamin B12 - 0.2 mg
Adenine - 20.0 mg
L-Glutamine - 200.0 mg
Guanine - 0.6 mg
p-Aminobenzoic acid - 0.26 mg
L-Cystine - 22.0 mg
NAD (Coenzyme 1) - 5.0 mg
Coccarboxylase - 2.0 mg
Iron (III) nitrate - 0.4 mg
Thiamine hydrochloride - 0.06 mg
Cysteine hydrochloride - 518.0 mg
Glucose - 2g/L

Storage: 2-8°C

Appearance:

NYC MEDIUM - Transparent Amber clear

CHOCOLATE BLOOD AGAR – chocolate - brown

pH Range:

CHOCO - 7.2 - 7.6

NYC MEDIUM - 6.9 - 7.3

Package contents: 10 plates in a package

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

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Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8°C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal

After interpretation all items should be destroyed by standard incineration methods.

Performance Testing Results:

GPT: Inoculum 10-100 cfu.

Inhibitory properties: inoculum 10000 cfu.

| TEST | ATCC | Incubation Temp. (°C) | Incubation Cond. | Reaction 1 NYC MEDIUM | Reaction 2 CHOCO |
|---------------------------------|-------|-----------------------|---------------------|--------------------------------------|------------------|
| <i>Neisseria gonorrhoeae</i> | 49226 | 33-37 °C | 5% CO2, 24-48 hours | Growth | Growth |
| <i>Neisseria meningitidis</i> | 13090 | 33-37 °C | 5% CO2, 24-48 hours | Growth | Growth |
| <i>Streptococcus pneumoniae</i> | 6303 | 33-37 °C | 5% CO2, 24-48 hours | / | Growth Yellow |
| <i>Haemophilus influenzae</i> | 49247 | 33-37 °C | 5% CO2, 24-48 hours | / | Growth |
| <i>Haemophilus influenzae</i> | 49766 | 33-37 °C | 5% CO2, 24-48 hours | / | Growth |
| <i>Candida albicans</i> | 10231 | 33-37 °C | 5% CO2, 24-48 hours | Almost totally inhibited Black brown | / |
| <i>Staphylococcus aureus</i> | 25923 | 33-37 °C | 5% CO2, 24-48 hours | Inhibited | / |
| <i>Escherichia coli</i> | 25922 | 33-37 °C | 5% CO2, 24-48 hours | Inhibited | / |
| <i>Proteus mirabilis</i> | 4630 | 33-37 °C | 5% CO2, 24-48 hours | Inhibited | / |