 Medical laboratories enriched media recommended for the isolation of Neisseria gonorrhoeae from chronic and acute cases of gonococcal infections.

**Chocolate Agar Base**

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| REF: V.1/CC01.100 100 gram REF: V.1/CC01.250 250 gram |  REF: V.1/CC01.500 500 gram  |

# CLINICAL SIGNIFICANCE

# Chocolate agar base is an enriched selective medium. It is used for the cultivation and isolation of Neisseria species and Haemophilus Influenza from clinical specimens such as Blood, throat, Urethral, Rectal, Cervical, Vaginal, Oropharyngeal, Conjunctival and sterile body fluids.

# METHOD PRINCIPLE

# Neisseria gonorrhoeae is a gram-negative bacteria and the causative agent of gonorrhea, however it is also occasionally found in the throat. The cultivation medium for gonococci should ideally be a rich nutrients base with blood, either partially lysed or completely lysed. The diagnosis and control of gonorrhea have been greatly facilitated by improved laboratory methods for detecting, isolating and studying N. gonorrhoeae. Chocolate Agar Base, with the addition of supplements, gives excellent growth of the gonococcus without overgrowth by contaminating organisms

# MEDIA COMPOSITION

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| **Item**  | **Formula in g/L**  |
| Proteose Peptone Glucose Sodium Chloride Disodium hydrogen phosphate Agar | 200.55515 |

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## Final pH 7.3 ± 0.2 at 25°C

# PRECAUTIONS AND WARNINGS

Media to be handled by entitled and professionally educated person.

Good Laboratories practices using appropriate precautions should be followed in:

* Wearing personnel protective equipment (overall, gloves, glasses...).
* Do not pipette by mouth.
* In case of contact with eyes or skin; rinse immediately with plenty of soap and water. In case of severe injuries, seek medical advice immediately.
* Handle specimens and inoculated culture bottles as though capable of transmitting infectious agents. All inoculated culture bottles, specimen collection needles, and blood drawing devices should be decontaminated according to country requirement for waste disposal.

S56: dispose of this material and its container at hazardous or special waste collection point.

S57: use appropriate container to avoid environmental contamination.

S61: avoid release in environment.

For further information, refer to the Chocolate Agar Base material safety data sheet.

# MEDIA STORAGE AND STABILITY

**Lab.Vie**. Chocolate Agar Base should be stored between 10-30°C in a firmly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to avoid lump development due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in a dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

## PROCEDURE

**Preparation of hemoglobin solution:**

Add hemoglobin to distilled water and bring volume to 500 ml to prepare 2% solution. Mix thoroughly and autoclave for 15 min at 15lbs pressure at 121°C. Cool at 45°C -50°C.

**Preparation of the medium:**

Suspend 45.5 grams in 495 ml purified/ distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Aseptically add equal amount (495 ml) of sterile Hemoglobin. Also add the contents or one vial of Yeast Autolysate Supplement or Vitamino Growth Supplement reconstituted as directed. Mix well and pour into sterile Petri plates. When single strength medium is desired, suspend 45.5 grams in 1000 ml distilled water.

## Deterioration

**Lab.Vie**. Chocolate Agar Base is cream to yellow homogeneous free flowing powder. Basal medium: Light amber colored clear to slightly opalescent gel. After addition of hemoglobin: Chocolate brown colored opaque gel forms in Petri plates. If there are any physical changes for powder or signs of deterioration (shrinking, cracking, or discoloration), and contaminations for hydrated media, discard the medium.

**SPECIMEN COLLECTION AND PRESERVATION**

# For clinical samples follow appropriate techniques for handling specimens as per established guidelines (11, 12). For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (9, 10, 13). After use, contaminated materials must be sterilized by autoclaving before discarding.

# TYPE OF SPECIMEN

# Clinical samples - urethral swabs, urine samples.

# EQUIPMENT REQUIRED NOT PROVIDED

# Sterile cups

# Sterile plates

# Incubator

# Autoclave

# QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control values are found outside the defined range, check the system performance. If control still out of range please contact the technical support.

# PERFORMANCE CHARACTERISTICS

Performance of the medium from type cultures after incubation at a temperature of 35 ± 2°C, under 5 - 10% CO2, and observed after 24 - 72 hours. (It is recommended to grow Aspergillus brasiliensis and Saccharomyces cerevisiae aerobically at 30 ± 2°C).

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| **Microorganism** | **Growth** |
| *Neisseria gonorrhoeae ATCC 19424* | Luxuriant |
| *Haemophilus influenzae ATCC 19418* | Luxuriant |
| *Streptococcus pyogenes ATCC 19615* | Luxuriant |
| *Neisseria meningitidis ATCC 13090* | Luxuriant |
| *Streptococcus pneumoniae ATCC 6303* | Luxuriant |

# REFERENCES

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| **SYMBOLS IN PRODUCT LABELLING**  |
|   IVD For in-vitro diagnostic use  |   Number of <n> test in the pack  |
|  LOT Batch Code/Lot number  | A black and white triangle with a exclamation mark  Description automatically generated Caution  |
|  REF Catalogue Number  | Do not use if package is damaged   |
|   Temperature Limitation   Expiration Date   Manufactured by  |  Consult Instruction for use      |

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