Thayer Martin Agar Plate w/VCNT

**Intended use**
Recommended for selective isolation of Gonococci from pathological specimens.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptone, special</td>
<td>23.000</td>
</tr>
<tr>
<td>Starch</td>
<td>1.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Agar</td>
<td>13.000</td>
</tr>
</tbody>
</table>

**V.C.N.T Supplement (FD024)**

- Vancomycin (2x1.500 mg)              3.000 mg
- Colistin methane sulphonate (2x3.750 mg) 7.500 mg
- Trimethoprim (2x2.500 mg)           5.000 mg
- Nystatin (2x 6250.000 units)        12500.000 units

**Final pH (at 25°C)** 7.0±0.2

**Directions**
Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

**Principle And Interpretation**
Carpenter and Morton reported an improved medium to isolate Gonococci in 24 hours (1). Later on the efficiency of GC medium supplemented with haemoglobin and yeast concentrate was demonstrated for isolating gonococci (2). Subsequently Thayer and Martin Medium was developed for the primary isolation of Neisseria gonorrhoeae and Neisseria meningitidis from specimens containing mixed flora collected from throat, vagina, rectum and urethra (6, 8). Thayer and Martin (8) used Vancomycin, Colistin and Nystatin. Martin and Lester (7) used an additional antibiotic Trimethoprim to make the medium selective. Special peptone provides nutrients to the organisms while starch neutralizes the toxic fatty acids if present in the agar. Vancomycin and colistin inhibits gram-positive and gram-negative bacteria respectively (5). Nystatin inhibits fungi. This medium may inhibit *Haemophilus* species.

**Type of specimen**
Clinical samples: Throat, vagina, rectum and urethra

**Specimen Collection and Handling:**
For clinical samples follow appropriate techniques for handling specimens as per established guidelines (8,7). After use, contaminated materials must be sterilized by autoclaving before discarding.

**Warning and Precautions:**
In Vitro diagnostic Use only. Read the label before opening the pack. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

**Limitations:**
1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium
2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user’s unique requirement.
3. Some strains of *Capnocytophaga* species may grow on this medium when inoculated with oropharyngeal specimens.

Please refer disclaimer Overleaf.
**Performance and Evaluation**
Performance of the medium is expected when used as per the direction on the label within expiry period when stored at the recommended temperature.

**Quality Control**

**Appearance**
Sterile Thayer Martin Agar w/VCNT in 90 mm disposable plates.

**Colour of medium**
Yellow coloured medium

**Quantity of medium**
25 ml of medium in 90 mm disposable plates.

**pH**
6.80-7.20

**Sterility Test**
Passes release criteria

**Cultural Response**
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
<th>Colour of colony</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Escherichia coli</em> ATCC 25922 (00013*)</td>
<td>&gt;=10⁴</td>
<td>inhibited</td>
<td>0%</td>
<td>small, grayish-white to colourless, mucoid</td>
</tr>
<tr>
<td><em>Neisseria gonorrhoeae</em> ATCC 19424</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
<td>medium to large, blue-gray, mucoid</td>
</tr>
<tr>
<td><em>Neisseria meningitidis</em> ATCC 13090</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
<td></td>
</tr>
<tr>
<td><em>Proteus mirabilis</em> ATCC 25933</td>
<td>&gt;=10⁴</td>
<td>inhibited</td>
<td>0%</td>
<td></td>
</tr>
</tbody>
</table>

Key: *Corresponding WDCM numbers.

**Storage and Shelf Life**
On receipt store between 2-8°C Use before expiry date on the label. Product performance is best if used within stated expiry period.

**Disposal**
User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

**Reference**

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Please refer disclaimer Overleaf.
In vitro diagnostic medical device

CE Marking

Storage temperature

2°C – 8°C

Do not use if package is damaged

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