Normocin™
For the prevention of cell culture contamination by mycoplasma, bacteria or fungi
Catalog code: ant-nr-05, ant-nr-1, ant-nr-2
https://www.invivogen.com/normocin
For research use only. Not for human or veterinary use.
Version 22A09-MM

PRODUCT INFORMATION

Content
Normocin™ is supplied as a cell culture tested, sterile filtered red solution at 50 mg/ml. It is available in 3 pack sizes:
• ant-nr-05: 5 x 1 ml (250 mg)
• ant-nr-1: 10 x 1 ml (500 mg)
• ant-nr-2: 1 x 20 ml (1 g)

Shipping and Storage
- Normocin™ is shipped at room temperature. Upon receipt it can be stored at 4°C or at -20°C. Avoid repeated freeze-thaw cycles.
- The expiry date is specified on the product label.
Note: Product is stable for 2 weeks at room temperature.

QUALITY CONTROL
Each lot is thoroughly tested to ensure the absence of lot-to-lot variation:
- Endotoxin level: < 0.5 EU/mg
- Physicochemical characterization (pH, appearance)
- Cell culture tested: potency validated on bacterial and fungal reference strains

DESCRIPTION
Normocin™ is an innovative formulation of three antibiotics active against mycoplasma, bacteria and fungi. It is widely used and cited as a «routine addition» to cell culture media to prevent contamination in animal cell cultures1-5. It is active against Gram-positive (e.g. Bacillus and Staphylococcus species) and Gram-negative bacteria (e.g. E. coli and Enterobacter), mycoplasmas and fungi including yeasts (e.g. C. albicans and S. cerevisiae).

Normocin™ can be used in combination with penicillin and streptomycin (Pen-Strep) solutions to broaden the anti-bacterial spectrum. It displays very efficient anti-mycoplasma action and eliminates basal resistance. Normocin™ provides maximum protection against microbial contamination with minimum cytotoxicity.


COMPOSITION
Normocin™ contains three compounds. Two of these compounds act on mycoplasmas, Gram-positive and Gram-negative bacteria by blocking DNA and protein synthesis. The third compound eradicates fungi, including yeasts, by disrupting ionic exchange through the cell membrane.

METHOD
For cell culture maintenance, Normocin™ is used at a concentration of 100 µg/ml, which represents a 1:500 dilution of stock solution. Refer to the table below to determine the volume needed.

<table>
<thead>
<tr>
<th>Reagent</th>
<th>T25 with 5 ml medium</th>
<th>T75 with 15 ml medium</th>
<th>500 ml bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normocin™</td>
<td>10 µl</td>
<td>30 µl</td>
<td>1 ml</td>
</tr>
</tbody>
</table>

1. Split an actively dividing culture of cells into medium containing 100 µg/ml of Normocin™.
2. Remove and replace with fresh Normocin™ containing medium every 3-4 days.
3. Repeat every time you change culture medium.

RELATED PRODUCTS

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Cat. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fungin™</td>
<td>Antifungal agent</td>
<td>ant-fn-1</td>
</tr>
<tr>
<td>Normocure™</td>
<td>Antibacterial agent</td>
<td>ant-noc</td>
</tr>
<tr>
<td>Plasmocin®</td>
<td>Anti-mycoplasma agent</td>
<td>ant-nr-1</td>
</tr>
<tr>
<td>Plasmocin® Treatment</td>
<td>Mycoplasma removal agent</td>
<td>ant-nr-2</td>
</tr>
<tr>
<td>PlasmoTest</td>
<td>Mycoplasma detection kit</td>
<td>rep-pt1</td>
</tr>
<tr>
<td>Primocin®</td>
<td>Antimicrobial for primary cells</td>
<td>ant-pp-05</td>
</tr>
</tbody>
</table>

TECHNICAL SUPPORT
InvivoGen USA (Toll-Free): 888-457-5873
InvivoGen USA (International): +1 (858) 457-5873
InvivoGen Europe: +33 (0) 5-62-71-69-39
InvivoGen Asia: +852 3622-3480
E-mail: info@invivogen.com