Decasan
Decamethoxine
Composition of the drug: active substance: decamethoxine; 1 ml of the solution contains 0.2 mg decamethoxine; auxiliary components: sodium chloride, water for injections.
Pharmaceutical form: Solution. Transparent colorless solution.
Manufacturer name and location: Yuria-Pharm Ltd. 10 M. Amosova Str., 03680 Kyiv, Ukraine.
Pharmacotherapeutic group. Antiseptic and disinfecting agents. ATC code D08A.
Manufacturer name and location: Yuria-Pharm Ltd. 10 M. Amosova Str., 03680 Kyiv, Ukraine.
Precautions concerning the impact on the reaction time for driving or operation of machinery.
Pharmaceutical: decamethoxine is a cationic surface-active agent, so it is incompatible with soap and other anionic compounds. Pharmacodynamic: decamethoxine increases the sensitivity of antibiotic-resistant microorganisms to antibiotics. Shelf life: 3 years.
Storage conditions. Keep out of reach of children. Store in a dark place at temperature not exceeding 25°C. Don’t freeze.
Packaging. 50 ml, 100 ml, 250 ml and 500 ml glass bottles; 50 ml, 100 ml, 250 ml, 500 ml, 1020 ml, 2000 ml and 5000 ml polymer containers (bags).
Sales list. Over-the-counter.

Decamethoxine
Inhalable
The first of a kind
Antiseptic

Yuria-Pharm Ltd.
10 M. Amosova Str., Kyiv 03680, Ukraine
tel./fax: +380 (44) 275-01-08; 275-92-42

www.ufa.ua/int

Pharmaceutical form. Solution. Transparent colorless solution.
Indications. The solution for 30 minutes.
Precautions during administration. Contraindications.

Decasan has antimicrobial and antifungal effects and concentrates on the cationic phosphatide lipid groups, disrupting the penetrability of the microorganism’s CPM. Decasan has a pronounced bactericidal effect on staphylococci, streptococci, rhodotorula, diphtheria and blue-pus bacilli, and capnophilous bacteria; a fungicidal effect on yeast, yeast-like fungi, agents of epidemo-mycosis, trichophyta, microsporia and arthropodae, to tea red fungus (aspergillus, palate), an antifungal effect on trichomades and gouta lamblia, and an antifungal effect on viruses. The drug is highly active against antibiotic-resistant microorganisms. Creation of decamethoxin-resistant forms during prolonged therapy is slow and does not exceed the effective concentrations of the drug. Bacteriostatic (fungistatic) concentrations are similar to its bactericidal (fungicidal), virusocidal and antitenial on yeasts, yeast-like fungi, agents of epidemo-mycosis, trichomades, gouta lamblia and agent of trichomonad diseases of the vaginal mucous membranes, Decasan® is applied by spraying (100-200 ml of the solution warmed to 38°C, 3 times daily). The same method is used for vaginal birth canal sanitation, in a single procedure. For treatment of postpartum endometritis, the uterine cavity is washed with 150-200 ml of warm solution, twice daily. Distillation of hand skin and rubber gloves is done by spraying 1-5 ml of the drug on the previously washed surface and distributing it evenly throughout the surface to be disinfected, during 5 minutes. Cleaned medical instruments, bite-boards, tubes and equipment is disinfected by being immersed into the solution for 30 minutes.

Overdosing. Due to the lack of absorption, overdosing is not observed.
Side effects. In isolated cases, individual hypersensitivity is possible.
In such patients, skin rash may appear after the use of the drug. Buming sensation, dryness, itching after administration of the drug and other allergic reactions after intranasal administration, a sensation of heat behind the lens is possible, alleviated 20-30 minutes after the end of the procedure.
Interactions with other drugs and other forms of interaction. Pharmaceutical: decamethoxin is a cationic surface-active agent, so it is incompatible with soap and other anionic compounds. Pharmacodynamic: decamethoxine increases the sensitivity of antibiotic-resistant microorganisms to antibiotics.

Shelf life. 5 years.
Storage conditions. Keep out of reach of children. Store in a dark place at temperature not exceeding 25°C. Don’t freeze.
Packaging. 50 ml, 100 ml, 200 ml and 600 ml glass bottles; 50 ml, 100 ml, 250 ml, 500 ml, 1020 ml, 2000 ml and 5000 ml polymer containers (bags).
Sales list. Over-the-counter.
DECASAN® – the first of a kind inhalable antiseptic

DECASAN® via inhalations is used at:

Diseases of the upper respiratory tract:
- acute and chronic rhinitis
- pharyngitis
- tonsillitis
- tracheitis
- laryngitis

Diseases of the lower respiratory tract:
- acute and chronic bronchitis
- pneumonia
- cystic fibrosis
- obstructive pulmonary disease

DECASAN®: spectrum of activity against bacteria and fungi

<table>
<thead>
<tr>
<th>Culture</th>
<th>MIC (μg/mL)</th>
<th>MBC (μg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. aureus</td>
<td>0.78</td>
<td>6.25</td>
</tr>
<tr>
<td>S. epidermidis</td>
<td>0.78</td>
<td>3.10</td>
</tr>
<tr>
<td>S. pyogenes</td>
<td>0.39</td>
<td>1.56</td>
</tr>
<tr>
<td>E. faecalis</td>
<td>1.56</td>
<td>50.0</td>
</tr>
<tr>
<td>E. coli K-12</td>
<td>50.0</td>
<td>25.0</td>
</tr>
<tr>
<td>P. rettgeri</td>
<td>25.0</td>
<td>1.56</td>
</tr>
<tr>
<td>P. aeruginosa</td>
<td>25.0</td>
<td>25.0</td>
</tr>
<tr>
<td>P. putida</td>
<td>1.56</td>
<td>25.0</td>
</tr>
<tr>
<td>P. fluorescens</td>
<td>25.0</td>
<td>25.0</td>
</tr>
<tr>
<td>A. baumanii</td>
<td>25.0</td>
<td>25.0</td>
</tr>
</tbody>
</table>

* MIC - The minimal inhibitory concentration
** MBC - The minimal bactericidal concentration

DECASAN®: effective treatment of influenza

<table>
<thead>
<tr>
<th>Virus</th>
<th>Time of Decasan exposure</th>
<th>Virucidal activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza A(H1N1)</td>
<td>5 minutes</td>
<td>+++</td>
</tr>
<tr>
<td>Influenza A(H3N2)</td>
<td>5 minutes</td>
<td>+++</td>
</tr>
<tr>
<td>Vesicular stomatitis virus (strain Indiana)</td>
<td>5 minutes</td>
<td>+++</td>
</tr>
</tbody>
</table>

DECASAN® is active ONLY AGAINST MICROBIAL cells and does not affect human cells.

Decamethoxine is a surface-active agent (SAA), exerting its action via disruption of cellular wall integrity. The cellular wall of microorganisms consists of short lipid chains subject to rapid decomposition with DECASAN®.

The mechanism of action of DECASAN®:
- Increased permeability of the bacterial cell and its destruction
- Inactivation of exotoxin
- Inhibition of protein synthesis and its division

The main characteristics of DECASAN®:
- Bactericidal, fungicidal, virucidal, sporicidal activity
- Anti-inflammatory effect
- Desensitizing effect
- Potentiates the effect of antibiotics
- Does not cause burns of the mucous membrane
- Promotes elimination of microbial plasmids
- Antispasmodic effect