APRAMYCIN Water-soluble powder (apramycin)

COMPOSITION

<table>
<thead>
<tr>
<th>Content</th>
<th>Apramycin Water-soluble powder 50 g</th>
<th>Apramycin Water-soluble powder 100 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apramycin</td>
<td>25 g</td>
<td>50 g</td>
</tr>
<tr>
<td>Excipients</td>
<td>Up to 50 g</td>
<td>Up to 100 g</td>
</tr>
</tbody>
</table>

PHARMACOLOGICAL ACTION

Apramycin is an aminoglycoside antibiotic with bactericidal action. Gram-negative microorganisms are sensitive to the antibiotic: *Bordetella bronhiseptica, E.coli, Vibrio coli, Klebsiella sp., Pseudomonas aeruginosa, Shigella sonnei, Salmonella sp., Proteus sp.*; some Gram-positive micro-organisms – *Staphylococcus aureus, Streptococcus haemolyticus* and some Mycoplasmas – *Mycoplasma Hyopneumonieae*. It acts antibacterially through disrupting the protein synthesis on a ribozomic level (through an irreversible connection with 30S – the ribosome subunits). It is active at both the logarithmic and the stationary phases of the microorganisms. However, it is not active against anaerobic bacteria because its penetration through the cell membranes is an oxygen-dependent process.

INDICATIONS

For treatment of gastrointestinal tract infections caused by susceptible to apramycin microorganisms: *Colibacillosis* and *Salmonellosis* in calves; *Bacterial enteritis* in pigs; *Colibacillosis* in lambs; septicaemia caused by *E. coli* in poultry; infections of the gastrointestinal tract caused by susceptible micro-organisms in rabbits.

CONTRAINDICATIONS

Hypersensitivity to apramycin.

MODE OF ADMINISTRATION

*Orally*, with the drinking water or milk-substitutes.

TARGET SPECIES

Calves, pigs, lambs, poultry, rabbits.
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**DOSAGE**

<table>
<thead>
<tr>
<th>Species</th>
<th>Apramycin mg/kg b.w.</th>
<th>Apramycin water soluble powder mg/kg b.w.</th>
<th>Duration of treatment (days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calves</td>
<td>20 – 40</td>
<td>40 – 80</td>
<td>5</td>
</tr>
<tr>
<td>Pigs</td>
<td>7.5 – 12.5</td>
<td>15 – 25</td>
<td>7</td>
</tr>
<tr>
<td>Piglets</td>
<td>10 - 20</td>
<td>20 - 40</td>
<td>3 - 5</td>
</tr>
<tr>
<td>Lambs</td>
<td>10</td>
<td>20</td>
<td>3 – 5</td>
</tr>
<tr>
<td>Poultry (25 – 50 (250 – 500 mg/l water)</td>
<td>50 – 100 (500 – 1000 mg/l water)</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Rabbits (10 – 15 (50 – 100 mg/l water)</td>
<td>20 – 30 (100 – 200 mg/l water)</td>
<td>5 – 8</td>
<td></td>
</tr>
</tbody>
</table>

**SIDE EFFECTS**

Administered orally apramycin is well tolerated. Sometimes diarrhea may occur while using the drug at high doses and for a prolonged period of time.

**WITHDRAWAL PERIOD**

- **Calves** – 28 days.
- **Pigs**  - 7 days.
- **Poultry and chickens for fattening** – 7 days.

The eggs of hens treated with apramycin are not suitable for consumption by people due to the risk of sensitization.

**STORAGE**

In the original packing, well closed, in dry and well-ventilated facilities, protected from direct sunlight.

**PACKING**

Plastic bottles of 50 g and 100 g.

**WARNING**

- The use of the preparation in farms producing eggs for consumption and breeding farms for cattle and sheep is not recommended.
- Risk of adverse effects is not observed with recommended doses.
- Do not use for cats!
- Watering through systems should be thoroughly cleaned from rust in order to avoid reduction of potency. If Apramycin water-soluble powder gets in contact with the skin, the spot should be thoroughly washed with soap and water.
- Apramycin water-soluble powder should be kept out of the reach and sight of children.