Micotil® (tilmicosin injection) Dose and Administration Information

Indications: Micotil is indicated for the treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida* and *Histophilus somni* and, for the control of respiratory disease in cattle at high risk of developing BRD associated with *Mannheimia haemolytica*.

Dosage and administration: Inject subcutaneously only. In cattle, administer a single subcutaneous dose of 10 to 20 mg/kg of body weight (1 to 2 mL/30 kg or 1.5 to 3 mL per 100 lbs). Do not inject more than 10 mL per injection site.

If no improvement is noted within 48 hours, the diagnosis should be reevaluated.

Residue warning: Micotil has a withdrawal time of 42 days, regardless of dose.

Proper Micotil handling procedures

- Storage of Micotil in a secure location to prevent the risk of misuse is recommended
- Recommended storage includes a lockable cabinet or container or a secure storage room, depending on the amount of product in inventory
- Keep full or empty Micotil bottles, used syringes and needles out of the reach of children and the general public
- Read, understand and follow all label use directions
- For subcutaneous use; do not use in automatically powered syringes
- Use a 1/2” to 5/8” 18- to 16-gauge needle
- Keep a protective cover on needles until ready to use
- Never carry loaded syringes in pocket or clothing
- Wash hands thoroughly with soap and water after handling

Micotil dosage chart

<table>
<thead>
<tr>
<th>Animal weight (lbs)</th>
<th>1.5 mL/100 lb body weight</th>
<th>Micotil dosage 2.25 mL/100 lb body weight</th>
<th>3 mL/100 lb body weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>3.00</td>
<td>4.50</td>
<td>6.00</td>
</tr>
<tr>
<td>300</td>
<td>4.50</td>
<td>6.75</td>
<td>9.00</td>
</tr>
<tr>
<td>400</td>
<td>6.00</td>
<td>9.00</td>
<td>12.00</td>
</tr>
<tr>
<td>500</td>
<td>7.50</td>
<td>11.25</td>
<td>15.00</td>
</tr>
<tr>
<td>600</td>
<td>9.00</td>
<td>13.50</td>
<td>18.00</td>
</tr>
<tr>
<td>700</td>
<td>10.50</td>
<td>15.75</td>
<td>21.00</td>
</tr>
<tr>
<td>800</td>
<td>12.00</td>
<td>18.00</td>
<td>24.00</td>
</tr>
<tr>
<td>900</td>
<td>13.50</td>
<td>20.25</td>
<td>27.00</td>
</tr>
<tr>
<td>1,000</td>
<td>15.00</td>
<td>22.50</td>
<td>30.00</td>
</tr>
</tbody>
</table>

Proper Micotil administration procedures

- Properly restrain animal prior to administering Micotil
- With a single hand on the syringe, insert the needle subcutaneously, at a top-down angle, while avoiding penetration of underlying muscle
- Injection under the skin in the neck is suggested. If not accessible, inject under the skin behind the shoulders and over the ribs
- Administer a single subcutaneous dose of 1.5 mL to 3 mL of Micotil per 100 lbs of body weight
- Ensure proper disposal of needles, syringes and used bottles
- If syringe is broken or damaged in any way, discontinue use immediately
- Exercise caution and care when removing needle from syringe
- Access to Micotil should be limited to personnel trained in safe handling and use procedures

What to do in case of self-injection
Seek immediate medical attention and:

REACH for and apply ice pack
REFERENCE product label “Note To The Physician” and/or product insert and provide to emergency medical personnel
REMEMBER to contact Rocky Mountain Poison and Drug Center (RMPDC) at 1-800-722-0987 or local poison control center at 1-800-222-1222

Important Safety Information
Before using this product, it is important to read the entire product insert, including the boxed human warning.
- Caution: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian
- Not for human use. Injection of this drug in humans has been associated with fatalities. Keep out of reach of children. Do not use in automatically powered syringes. Exercise extreme caution to avoid accidental self-injection. In case of human injection, consult a physician immediately and apply ice or cold pack to injection site while avoiding direct contact with the skin. Avoid contact with eyes.
- Always use proper drug handling procedures to avoid accidental self-injection. Consult your veterinarian on the safe handling and use of all injectable products prior to administration.
- For use in cattle or sheep only. Inject subcutaneously. Injection of this antibiotic has been shown to be fatal in swine and non-human primates, and may be fatal in horses and goats.
- Do not use in female dairy cattle 20 months of age or older. Use in lactating dairy cattle or sheep may cause milk residues.
- The following adverse reactions have been reported: in cattle: injection site swelling and inflammation, lameness, collapse, anaphylaxis/anaphylactoid reactions, decreased food and water consumption, and death.
- Micotil has a pre-slaughter withdrawal time of 42 days.
Two-stage activated Sekurus™ syringe

- Developed and manufactured by Simcro™, the syringe is a patented technology with self-tenting and needle-guard features.
- The syringe reduces the chance of self-injection and withstands the most challenging environments at feedyards and stocker operations.
- To be activated, the trigger must be pulled and then the syringe pushed against the animal. Both actions must be performed for the product to be administered.
- To obtain more information about this syringe or to receive one, please consult your veterinarian or contact your Elanco representative.

For information about Elanco products or to report an adverse event, call 1-800-428-4441.