

Hymatil 300mg/ml

Injectable solution for cattle and lambs

Tilmicosin

Kick pneumomia

A single shot to get rid of pneumonia



Composition: Each ml contains: Active substance: Tilmicosin, 300 mg. Excipient: Propylene glycol, 250 mg.

Species of destination: Cattle (beef).

Indications: Hymatil is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia (Pasteurella) haemolytica and Pasteurella multocida and for the reduction of morbidity associated with bovine respiratory disease (BRD) in feedlot calves, caused by Mannheimia (Pasteurella) haemolytica and Pasteurella multocida, during the first 30 days in the feedlot, when administered at the time of arrival. Hymatil is indicated for the treatment of pneumonic pasteurellosis in lambs associated with Mannheimia (Pasteurella) haemolytica.

Dosage: Inject subcutaneously in cattle. Inject subcutaneously in lambs greater than 15 kg body weight only. Administer a single subcutaneous injection of 10 mg tilmicosin/kg body weight (1 mL per 30 kg/1.5 mL per 100 lbs.). Do not inject more than 25 mL per injection site.

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

NOTE: Swelling at the subcutaneous site of injection may be observed but is transient and usually mild. To limit the development of antimicrobial resistance, Hymatil should only be used as an arrival treatment when: 1) BRD has been diagnosed and 2) calves are at high risk of developing BRD. One or more of the following factors typically characterizes calves at high risk of developing BRD: commingling of calves from multiple sources; extended transport times (that may have included few if any rest stops) and excessive shrink; continued exposure to extremely wet and cold weather conditions and/or exposure to wide ambient temperature changes from origin to arrival; stressful arrival processing procedures such as castration and dehorning; recent weaning and poor vaccination status.

Contraindications: Do not administer intravenously. Intravenous injection in cattle and lambs has been fatal.

Caution: Do not administer to swine. Injection of tilmicosin in swine has been fatal.

Warnings: Treated animals must not be slaughtered for use in food for at least 28 days for cattle and 36 days for sheep after the latest treatment with this drug. Do not use in lactating dairy cattle. Tilmicosin may cause sensitization by skin contact. Avoid contact with eyes or skin. Wash hands after use. To limit the development of antimicrobial resistance, Hymatil should only be used as an arrival treatment in feedlot calves when BRD has been diagnosed and calves are at a high risk of developing BRD. Keep out of reach of children.

Human warning: Not for human use. Human injection has been associated with fatalities. Do not use in automatically powered syringes. Exercise caution to avoid accidental self-injection. In case of human injection, consult a physician immediately and apply ice or cold pack to injection site. Do not apply ice directly to skin. For emergency medical information call 1-416-813-5900.

Storage: Store at 30°C (86°F) or below. Protect from direct sunlight. Discard unused product after 28 days of first broaching the vial.

Presentations: Hymatil is supplied in multidose 100 and 250 mL bottles containing 300 mg of tilmicosin activity per mL.

References

- 1 R.A Smith and co. *Effects of tilmicosin or ceftiofur on health and performance of stressed stocker cattle.* (1993)
- 2 Douglas W. Morck and co. *Prophylactic efficacy of tilmicosin for bovine respiratory tract disease.* (1993)
- 3 F.J. Schumann, E.D. Janzen and J.J. McKinnon. *Prophylactic medication of feedlot calves with tilmicosin.* (1991)
- 4 R. Laven & A.H. Andrews. *Long-acting antibiotic formulations in the treatment of calf pneumonia: a comparative study of tilmicosin and oxytetracycline.* (1991)
- 5 Héctor S. Sumano López & Luis Ocampo Caballeros. *Farmacología Veterinaria.* 3rd edition. McGraw Hill. Page 284. (1997)
- 6 D.W. Morck and co. *Treatment of Experimentally Induced Pneumonic Pasteurellosis of Young Calves with Tilmicosin.* Can J Vet Res 61:187-192. (1997)
- 7 B. Scorneaux & T. R. Shryock. *Intracellular Accumulation, Subcellular Distributions and Efflux of Tilmicosin in Chicken Phagocytes.* Poultry Science 77:1510-1521.(1998).
- 8 Alex C. Chin and co. *Tilmicosin induces apoptosis in bovine peripheral neutrophils in the presence or in the absence of Pasteurella haemolytica and promotes neutrophil phagocytosis by macrophages.* (2009)
- 9 Fossler and co. *Pharmacologic mechanism for tilmicosin in the control of cattle pneumonia.* (1998)

	CDMV	VPCL	WDDC	AVP	MVP
100mL:	118091	7752202	130417	3821480	7396006
250mL:	118116	7752204	130545	3821481	7396007

**Modern
Veterinary
Therapeutics**

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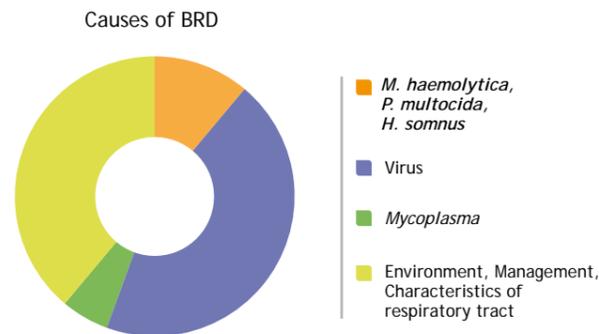
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Hymatil 300mg/ml

Bovine Respiratory Disease

The Bovine Respiratory Disease (BRD) is the main clinical and economical problem in fattening calves. It occurs mainly in calves at arrival at the feedlot, especially:

- In unvaccinated calves
- After a long journey
- When mixing animals from different farms of origin



Bacteria are the principal pathological agents that cause mortality.

Symptoms	Economic consequences
Dyspnea, cough, nasal discharge, depression, anorexia and high temperature	<ul style="list-style-type: none"> ↓ ADG (Average Daily Gain) ↓ FCE (Feed Conversion Efficiency) ↑ Mortality ↑ Veterinary expenses ↑ Work force expenses

The herd is in risk of suffering a BRD outbreak if:

- at arrival calves show a bad physical appearance
- at arrival 15% or more animals are already affected by BRD
- in the same day 20-25% of animals present respiratory symptoms
- everyday 5% of new calves are affected by BRD, for 3 consecutive days

Compared to other antibiotics commonly used to treat BRD, Tilmicosin shows:

Higher response rate and less retreatments ¹	Lower mortality associated with BRD on arrival of calves at the feedlot ²	Higher Weight and Average Daily Gain. Better Feed Conversion Efficiency ³	Fewer treatments required ⁴
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Dose:
1 ml/ 30 kg b.w.
Subcutaneous route only

Kick pneumonia
A single shot to get rid of pneumonia



Hymatil

Injectable solution of tilmicosin 30% (300 mg/ml)

Tilmicosin has a broad antibacterial spectrum. Regarding respiratory processes in calves, it is mainly active against gram-positive germs, some gram-negative germs (*Pasteurella multocida*, *Mannheimia haemolytica*, *Histophilus somni*) and mycoplasma⁵.

Advantages	Benefits
"Single" long-acting treatment	that facilitates the daily work of the veterinarian with less stress for the animal
Rapid action ⁶	Useful in acute pathologies and when time is of the essence
It is accumulated within macrophages and neutrophils ⁷	Boosts the animal's immune system
Induction of Neutrophils apoptosis ^{8,9} <small>This effect is not produced by other antibiotics under the same conditions (eg: penicillin, ceftiofur, oxytetracycline).</small>	Contributes to the resolution of inflammation in the pneumonic process

Tilmicosin contributes to the resolution of inflammation in the pneumonic process by induction of PMNeutrophils apoptosis^{2,3}

