

Elanco Feed Additives for Feedyard Cattle

A commitment to continuous improvement and helping cattle feeders optimize their feeding programs has led Elanco to invest in research and development ensuring technologies such as Rumensin[®], Tylan[®] Premix, Pennchlor[®], Experior[®], Optaflexx[®], HeifermaX[®] and Pulmotil[®], all of which can be used in combination with other feedyard products.

For all products: The label contains complete use information, including cautions and warnings. Always read, understand and follow the label and use directions.



Growing beef steers and heifers fed in confinement for slaughter:

For improved feed efficiency.

For the prevention and control of coccidiosis due to *Eimeria bovis* and *Eimeria zuernii*.



For reduction of incidence of liver abscess associated with *Fusobacterium necrophorum* and *Arcanobacterium pyogenes*.

Pennchlor[®]

(chlortetracycline)

For Growing Cattle (over 400 lbs.): For the reduction of the incidence of liver abscesses.

For Beef Cattle: For the control of bacterial pneumonia associated with shipping fever complex caused by *Pasteurella spp.* susceptible to chlortetracycline.

For Beef Cattle (under 700 lbs.): Control of active infection of anaplasmosis caused by *Anaplasma marginale* susceptible to chlortetracycline.

For Beef Cattle (over 700 lbs.): Control of active infection of anaplasmosis caused by *Anaplasma marginale* susceptible to chlortetracycline.

For Calves, Beef, and Nonlactating Dairy Cattle: For treatment of bacterial enteritis caused by *Escherichia coli* and bacterial pneumonia caused by *Pasteurella multocida* susceptible to chlortetracycline.



For the reduction of ammonia gas emissions per pound of live weight and hot carcass weight in beef steers and heifers fed in confinement for slaughter during the last 14 to 91 days on feed.



Complete feed

For increased rate of weight gain and improved feed efficiency in cattle fed in confinement for slaughter.

For increased rate of weight gain, improved feed efficiency and increased carcass leanness in cattle fed in confinement for slaughter.

Top dress

For increased rate of weight gain and improved feed efficiency in cattle fed in confinement for slaughter.



Heifers fed in confinement for slaughter.

For increased rate of weight gain, improved feed efficiency and suppression of estrus (heat).



For the control of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida* and *Histophilus somni* in groups of beef and non-lactating dairy cattle, where active BRD has been diagnosed in at least 10% of the animals in the group.

Right for cattle. Right by you.

Elanco

TM

Approved Combinations

	Ionophore	BRD	Liver abscess control	Estrus suppressant*	Beta ligand	Other	NADA/ANADA number
Single Approval	Rumensin	—	—	—	—	—	NADA 095-735
	—	Pulmotil	—	—	—	—	NADA 141-064
	—	—	Tylan	—	—	—	NADA 012-491
	—	—	—	HeifermaX	—	—	ANADA 200-343
	—	—	—	—	Optaflexx	—	NADA 141-221
	—	—	—	—	Experior	—	NADA 141-508
	—	—	—	—	—	Pennchlor	NADA 138-935
Two-way Combination Approval	Rumensin	Pulmotil	—	—	—	—	NADA 141-343
	Rumensin	Tilmovet®	—	—	—	—	ANADA 200-596
	Monovet	Pulmotil	—	—	—	—	ANADA 200-655
	Monovet	—	Tylan	—	—	—	ANADA 200-643
	Rumensin	—	Tylan	—	—	—	NADA 104-646
	Rumensin	—	Tylovet®	—	—	—	ANADA 200-531
	Rumensin	—	—	HeifermaX	—	—	ANADA 200-422
	Rumensin	—	—	MGA® (liquid premix)	—	—	NADA 125-476
	Rumensin	—	—	MGA (dry premix)	—	—	NADA 124-309
	Bovatec	—	—	HeifermaX	—	—	ANADA 200-451
	Rumensin	—	—	—	Optaflexx	—	NADA 141-225
	Rumensin	—	—	—	Actogain® 45	—	ANADA 200-559
	Rumensin	—	—	—	Experior	—	NADA 141-514
	Monovet	—	—	—	Experior	—	ANADA 200-725
	Rumensin	—	—	—	—	Deccox®	NADA 141-148
	—	—	Tylan	HeifermaX	—	—	ANADA 200-427
	—	—	Tylan	MGA (dry premix)	—	—	NADA 138-995
	—	—	Tylan	MGA (liquid premix)	—	—	NADA 139-192
	Rumensin	—	—	—	—	Pennchlor	NADA 141-564
	Monovet	—	—	—	—	Pennchlor	ANADA 200-748
	—	—	—	MGA	Experior	—	NADA 141-589
	Rumensin	—	Tylan	HeifermaX	—	—	ANADA 200-375
	Rumensin	—	Tylan	MGA	—	—	NADA 138-870
	Rumensin	—	Tylovet	MGA	—	—	ANADA 200-534
	Bovatec	—	Tylan	HeifermaX	—	—	ANADA 200-430
	Bovatec	—	Tylan	MGA	—	—	NADA 138-992
Monovet	—	Tylan	MGA	—	—	ANADA 200-661	
Rumensin	—	Tylan	—	Optaflexx	—	NADA 141-224	
Rumensin	—	Tylan	—	Actogain 45	—	ANADA 200-561	
Rumensin	—	Tylovet	—	Optaflexx	—	ANADA 200-566	
Rumensin	—	Tylovet	—	Actogain 45	—	ANADA 200-585	
Monovet	—	Tylan	—	Optaflexx	—	ANADA 200-646	
Monovet	—	Tylovet	—	Optaflexx	—	ANADA 200-644	
Monovet	—	Tylan	—	Actogain 45	—	ANADA 200-647	
Rumensin	—	Tylan	—	Experior	—	NADA 141-512	
Monovet	—	Tylovet	—	Experior	—	ANADA 200-724	
Rumensin	—	Tylan	—	—	Deccox	NADA 141-149	
Rumensin	—	Tylovet	—	—	Deccox	ANADA 200-533	
Monovet	—	Tylan	—	—	Deccox	ANADA 200-656	
Rumensin	—	—	HeifermaX	Optaflexx	—	ANADA 200-448	
Rumensin	—	—	MGA	Optaflexx	—	NADA 141-234	
Rumensin	—	—	MGA	Actogain 45	—	ANADA 200-560	
Rumensin	—	—	MGA	Experior	—	NADA 141-590	

Three-way Combination Approval

Approved Combinations

	Ionophore	BRD	Liver abscess control	Estrus suppressant*	Beta ligand	Other	NADA/ANADA number
Four-way Combination Approval	Rumensin	—	Tylan	HeifermaX	Optaflexx	—	ANADA 200-424
	Rumensin	—	Tylan	MGA (liquid premix)	Optaflexx	—	NADA 141-233
	Rumensin	—	Tylan	MGA (liquid premix)	Actogain 45	—	ANADA 200-562
	Rumensin	—	Tylovet	MGA (liquid premix)	Optaflexx	—	ANADA 200-567
	Rumensin	—	Tylovet	MGA (liquid premix)	Actogain 45	—	ANADA 200-583
	Monovet	—	Tylan	MGA (liquid premix)	Actogain 45	—	ANADA 200-651
	Monovet	—	Tylan	MGA (liquid premix)	Optaflexx	—	ANADA 200-650
	Monovet	—	Tylovet	MGA (liquid premix)	Optaflexx	—	ANADA 200-648
	Rumensin	—	Tylan	MGA	Experior	—	NADA 141-591

* Unless specified, the approval listed is for both the dry and liquid formulations of MGA

Please contact your beef technical consultant with questions or concerns.

For access to the full NADA or ANADA descriptions, please visit: <https://animaldrugsatfda.fda.gov>

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RUMENSIN

CAUTION: Consumption by unapproved species or feeding undiluted may be toxic or fatal. Do not feed to veal calves.

Growing beef steers and heifers fed in confinement for slaughter:

For improved feed efficiency: Feed 5 to 40 g/ton of monensin (90% DM basis) continuously in a complete feed to provide 50 to 480 mg/hd/day.

For the prevention and control of coccidiosis due to *Eimeria bovis* and *Eimeria zuernii*: Feed 10 to 40 g/ton of monensin (90% DM basis) continuously to provide 0.14 to 0.42 mg/lb of body weight/day, depending upon severity of challenge, up to a maximum of 480 mg/hd/day.

EXPERIOR

CAUTION: For the reduction of ammonia gas emissions per pound of live weight and hot carcass weight in beef steers and heifers fed in confinement for slaughter during the last 14 to 91 days on feed.

Directions for use: Feed 1.25 to 4.54 g/ton (1.39 to 5 ppm) of complete feed (90% dry matter basis) to provide 13-90 mg lubabegron/head/day continuously to beef steers and heifers fed in confinement for slaughter as sole ration during the last 14 to 91 days on feed.

OPTAFLEXX

CAUTION: Not for use in animals intended for breeding.

Complete feed

For increased rate of weight gain and improved feed efficiency in cattle fed in confinement for slaughter: Feed 8.2 to 24.6 g/ton of ractopamine hydrochloride (90% DM basis) continuously in a complete feed to provide 70 to 430 mg/hd/day for the last 28 to 42 days on feed.

For increased rate of weight gain, improved feed efficiency and increased carcass leanness in cattle fed in confinement for slaughter: Feed 9.8 to 24.6 g/ton of ractopamine hydrochloride (90% DM basis) continuously in a complete feed to provide 90 to 430 mg/hd/day for the last 28 to 42 days on feed.

For increased rate of weight gain and improved feed efficiency in cattle fed in confinement for slaughter: Feed 70 to 400 mg/hd/day of ractopamine hydrochloride (90% DM basis) continuously in a minimum of 1.0 lb/hd/day top dress Type C medicated feed (maximum 800 g/ton ractopamine hydrochloride) during the last 28 to 42 days on feed.

TYLAN

CAUTION: Federal law restricts medicated feed containing this veterinary feed directive (VFD) drug to use by or on the order of a licensed veterinarian. Visit <https://www.elanco.com/en-us/sustainability/esg> for more details on Elanco's Antibiotic, Welfare and Sustainability Policies.

For reduction of incidence of liver abscess associated with *Fusobacterium necrophorum* and *Arcanobacterium pyogenes*: Feed continuously as the sole ration 8 to 10 g/ton of tylosin (90% DM basis) to provide 60 to 90 mg/hd/day.

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HEIFERMAX

Heifers fed in confinement for slaughter.

For increased rate of weight gain, improved feed efficiency and suppression of estrus (heat): Feed 0.5 to 2.0 lb/hd/day of melengestrol acetate in a Type C medicated feed to provide 0.25 to 0.5 mg/hd/day.

PENNCHELOR

CAUTION: For use in dry feeds only. Not for use in liquid feed supplements.

CALVES, BEEF CATTLE, AND NONLACTATING DAIRY CATTLE. WARNING: A WITHDRAWAL PERIOD HAS NOT BEEN ESTABLISHED FOR THIS PRODUCT IN PRE-RUMINATING CALVES. DO NOT USE IN CALVES TO BE PROCESSED FOR VEAL.

For Growing Cattle (over 400 lbs.): For the reduction of the incidence of liver abscesses. WARNING: ZERO-DAY WITHDRAWAL PERIOD. 70 mg/head/day.

For Beef Cattle: For the control of bacterial pneumonia associated with shipping fever complex caused by *Pasteurella spp.* susceptible to chlortetracycline. WARNING: ZERO-DAY WITHDRAWAL PERIOD. 350 mg/head/day.

For Beef Cattle (under 700 lbs.): Control of active infection of anaplasmosis caused by *Anaplasma marginale* susceptible to chlortetracycline. WARNING: ZERO-DAY WITHDRAWAL PERIOD. 350 mg/head/day.

For Beef Cattle (over 700 lbs.): Control of active infection of anaplasmosis caused by *Anaplasma marginale* susceptible to chlortetracycline. WARNING: ZERO-DAY WITHDRAWAL PERIOD. 0.5 mg/lb body weight/day.

For Calves, Beef, and Nonlactating Dairy Cattle: For treatment of bacterial enteritis caused by *Escherichia coli* and bacterial pneumonia caused by *Pasteurella multocida* susceptible to chlortetracycline. (Treat for not more than 5 days) WARNING: ZERO-DAY WITHDRAWAL PERIOD. 10 mg/lb body weight/day.

PULMOTIL

CAUTION: Federal law restricts medicated feed containing this veterinary feed directive (VFD) drug to use by or on the order of a licensed veterinarian.

For the control of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida* and *Histophilus somni* in groups of beef and non-lactating dairy cattle, where active BRD has been diagnosed in at least 10% of the animals in the group: Feed continuously for a single, 14-day period at 568-757 g/ton on a 100% dry matter basis of Type C medicated feed as the sole ration to provide 12.5 mg/kg of body weight/day.

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