

# Pulmotil® (tilmicosin) Dosing Guide

## Background

Pulmotil® for cattle is to be fed continuously for a single, 14-day period at 568 to 757 g/ton (100% dry-matter [DM] basis) of Type C medicated feed as the sole ration to provide 12.5 mg tilmicosin/kg of body weight/day. Type B Pulmotil medicated feeds commonly contain 5.68 g/lb or 18.1 g/lb of active ingredient.

**Table 1. Pulmotil 5.68 g/lb pelleted supplement provides ease of use for producers**

Description	The supplement concentration of 5.68 g/lb should be mixed into the daily ration at a rate of 0.1 lbs per 100 pounds of bodyweight per head per day to provide the approved dose of 12.5 mg/kg of body weight per day for the 14 day BRD therapy							
	200	300	400	500	600	700	800	900
Body weight, lbs	200	300	400	500	600	700	800	900
Daily feeding rate (lbs/hd/d) by body weight of the Pulmotil 5.68 pellet	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9

**Table 2. Pulmotil 5.68 g/lb dose grid**

Mix the following pounds of supplement into a ton of feed with a given DM content to achieve the appropriate g/ton dose.

% DM of ration	Pulmotil g/ton dose on VFD* (100% DM basis)					
	757	710	668	631	598	568
	Pounds of Pulmotil 5.68/ton					
100	133.3	125	117.6	111.1	105.3	100
98	130.6	122.5	115.3	108.9	103.2	98
96	127.9	120	112.9	106.6	101.1	96
94	125.3	117.5	110.5	104.4	99	94
92	122.6	115	108.2	102.2	96.9	92
90	119.9	112.5	105.8	100	94.8	90
88	117.3	110	103.5	97.8	92.6	88
86	114.6	107.5	101.1	95.5	90.5	86
84	112	105	98.8	93.3	88.4	84
82	109.3	102.5	96.4	91.1	86.3	82
80	106.6	100	94.1	88.9	84.2	80
78	104	97.5	91.7	86.7	82.1	78
76	101.3	95	89.4	84.4	80	76
74	98.6	92.5	87	82.2	77.9	74
72	96	90	84.7	80	75.8	72
70	93.3	87.5	82.3	77.8	73.7	70
68	90.6	85	80	75.5	71.6	68
66	88	82.5	77.6	73.3	69.5	66
64	85.3	80	75.3	71.1	67.4	64
62	82.6	77.5	72.9	68.9	65.3	62
60	80	75	70.6	66.7	63.2	60
58	77.3	72.5	68.2	64.4	61.1	58
56	74.6	70	65.9	62.2	59	56
54	72	67.5	63.5	60	56.9	54
52	69.3	65	61.2	57.8	54.7	52
50	66.6	62.5	58.8	55.5	52.6	50

\*Veterinary Feed Directive.

### DRY-MATTER CONVERSION

While the Pulmotil dose is calculated on a 100% DM basis, cattle rations contain more moisture and, therefore, have a DM basis content lower than 100%. To achieve an accurate Pulmotil dose in the feed, follow the mixing calculations provided in tables 2 and 3.

### PULMOTIL 5.68 EXAMPLE:

A producer desires to mix a 4,000-lb batch of feed containing 668 g/ton (100% DM basis) of tilmicosin. The producer's ration has 80% DM content. How many pounds of Pulmotil 5.68 supplement should be added to appropriately dose this 4,000-lb batch of feed?

### ANSWER:

Following the DM dose guide grid (see Table 1), mix 94.1 lbs per ton of feed.

**Math:** 94.1 x 2 tons of feed = 188.2 lbs of Pulmotil 5.68 g/lb supplement to make this batch of feed

### Table 3. Pulmotil 18.1 g/lb dose grid

Mix the following pounds of supplement into a ton of feed with a given DM content to achieve the appropriate g/ton dose.

% DM of ration	Pulmotil g/ton dose on VFD* (100% DM basis)					
	757	710	668	631	598	568
	Pounds of Pulmotil 18.1/ton					
100	41.8	39.2	36.9	34.9	33	31.4
98	41	38.4	36.2	34.2	32.4	30.8
96	40.2	37.7	35.4	33.5	31.7	30.1
94	39.3	36.9	34.7	32.8	31.1	29.5
92	38.5	36.1	34	32.1	30.4	28.9
90	37.6	35.3	33.2	31.4	29.7	28.2
88	36.8	34.5	32.5	30.7	29.1	27.6
86	36	33.7	31.7	30	28.4	27
84	35.1	33	31	29.3	27.8	26.4
82	34.3	32.2	30.3	28.6	27.1	25.7
80	33.5	31.4	29.5	27.9	26.4	25.1
78	32.6	30.6	28.8	27.2	25.8	24.5
76	31.8	29.8	28	26.5	25.1	23.8
74	30.9	29	27.3	25.8	24.4	23.2
72	30.1	28.2	26.6	25.1	23.8	22.6
70	29.3	27.5	25.8	24.4	23.1	22
68	28.4	26.7	25.1	23.7	22.5	21.3
66	27.6	25.9	24.4	23	21.8	20.7
64	26.8	25.1	23.6	22.3	21.1	20.1
62	25.9	24.3	22.9	21.6	20.5	19.5
60	25.1	23.5	22.1	20.9	19.8	18.8
58	24.3	22.8	21.4	20.2	19.2	18.2
56	23.4	22	20.7	19.5	18.5	17.6
54	22.6	21.2	19.9	18.8	17.8	16.9
52	21.7	20.4	19.2	18.1	17.2	16.3
50	20.9	19.6	18.5	17.4	16.5	15.7

\*Veterinary Feed Directive.

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

#### IMPORTANT SAFETY INFORMATION

- **CAUTION:** Federal law restricts medicated feed containing this veterinary feed directive (VFD) drug to use by or on the order of a licensed veterinarian.
- Cattle intended for human consumption must not be slaughtered within 28 days of the last treatment.
- To assure both food safety and responsible use, treatment must be initiated within the first 45 days of the production period. The treatment should not occur concurrent with or following administration of an injectable macrolide, or within 3 days following administration of a non-macrolide injectable BRD therapy.
- VFD expiration date must not exceed 45 days from the time of issuance. VFDs shall not be refilled.
- Use only in cattle fed in confinement for slaughter.
- Cattle with severe clinical illness should be evaluated for individual treatment with an alternative non-macrolide therapy.
- Do not use in female dairy cattle 20 months of age or older or in veal calves.
- Safety has not been established for cattle intended for breeding.
- Do not allow horses or other equines access to feeds containing tilmicosin.

**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 animals in the group:** Feed continuously for a single, 14-day period at 568 to 757 g/ton of tilmicosin (100% DM basis) in a Type C medicated feed as the sole ration to provide 12.5 mg/kg of body weight/day.

#### PULMOTIL 18.1 EXAMPLE:

A producer desires to mix a 12,000-lb batch of feed containing 568 g/ton (100% DM basis) of tilmicosin. The producer's ration has 86% DM content. How many pounds of Pulmotil 18.1 supplement should be added to appropriately dose this 12,000-lb batch of feed?

#### ANSWER:

Following the DM dose guide grid (see Table 2), mix 27 lbs per ton of feed.

**Math:** 27 x 6 tons of feed = 162 lbs of Pulmotil 18.1 g/lb supplement to make this batch of feed

