

BMD[®] 50

Bacitracin Methylene Disalicylate - Type A Medicated Article

For supplementing rations of swine, chickens, turkeys, pheasants, quail and feedlot beef cattle

Composition

BMD 50 is an antibacterial feed additive containing feed grade bacitracin methylene disalicylate equivalent to 50 grams bacitracin (Master Standard) per pound. Bacitracin methylene disalicylate is a dried precipitated fermentation product obtained by culturing *Bacillus licheniformis* Tracy on media adapted for microbiological production of bacitracin; calcium carbonate.

Physical Characteristics

BMD 50 is a tan to light brown free-flowing product in the form of discrete irregular spheres.

- Particles all active.
- Characteristic odor.
- Excellent flowability. < 6% on 20 mesh
< 3% passes through 140 mesh
- Moisture < 7%
- Bulk density (lbs. per cubic foot) 44-48 freefall,
54-56 packed.
- Minimal electrostatic charge.
- Highly stable in the dry form; 30 months expiration dating when stored at ambient temperatures.
- No incompatibilities with standard feed ingredients.

Safety

BMD 50 has a wide margin of safety. It has been fed to:

- Broiler chickens and growing turkeys at a rate 20 times the highest use level with no adverse effects.
- Laying hens at a rate of 40 times the highest use level with no adverse effects.
- BMD 50 is not absorbed from the intestinal tract; no detectable tissue residues develop.
- Bacitracin has not been shown to cause transferable drug resistance between bacteria even with long term use.
- No withdrawal time required.

Caution

Restricted drug - Use only as directed. (CA)
For Use in Animals Only.
For Use in Dry Feeds Only.
Not for Use in Liquid Type B Medicated Feeds.

Availability

BMD 50 is marketed by Alpharma Inc.

Packaging

BMD 50 is packaged in 50 lb. multi-wall bags; 40 bags per pallet.

FDA Clearances

Species	Grams bacitracin per ton of feed	Indications for use
Growing/ finishing swine	10 - 30	For increased rate of weight gain and improved feed efficiency.
	250	For control of swine dysentery (bloody scours) associated with <i>Treponema hyodysenteriae</i> in pigs up to 250 lbs body weight. Feed 250 grams per ton of complete feed on premises with a history of swine dysentery, but where signs of the disease have not yet occurred or following an approved treatment of the disease condition. The 250 g/ton level will provide 5 to 7 mg/lb in swine weighing 40 to 250 lbs. CAUTION: Diagnosis should be confirmed by a veterinarian when results are not satisfactory. Feed containing an approved level of bacitracin methylene disalicylate should be the sole ration.
Pregnant sows	250	For control of clostridial enteritis caused by <i>Clostridium perfringens</i> in suckling piglets when fed to sows from 14 days before through 21 days after farrowing on premises with a history of clostridial scours. CAUTION: Diagnosis should be confirmed by a veterinarian when results are not satisfactory. Feed containing an approved level of bacitracin methylene disalicylate should be the sole ration.
Broiler and Replacement Chickens	4 - 50	For increased rate of weight gain and improved feed efficiency.
	50	As an aid in prevention of necrotic enteritis caused or complicated by <i>Clostridium spp.</i> or other organisms susceptible to bacitracin methylene disalicylate.
	100 - 200	As an aid in control of necrotic enteritis caused or complicated by <i>Clostridium spp.</i> or other organisms susceptible to bacitracin methylene disalicylate. CAUTION: To control a necrotic enteritis outbreak, start medication at the first clinical signs of disease. The dosage range permitted provides for different levels based on severity of the infection. Consult a poultry diagnostic laboratory or pathologist to determine the diagnosis and advice regarding the optimal level of drug. Administer continuously for 5 - 7 days or as long as clinical signs persist, and then reduce medication to prevention level (50 g/ton).
Laying hens	10 - 25	For increased egg production and improved feed efficiency during the first seven months of production.
Growing turkeys	4 - 50	For increased rate of weight gain and improved feed efficiency.
	200	As an aid in control of transmissible enteritis in growing turkeys complicated by organisms susceptible to bacitracin methylene disalicylate.
Pheasants	4 - 50	For increased rate of weight gain and improved feed efficiency.
Quail	5 - 20	For increased rate of weight gain and improved feed efficiency in quail not over 5 weeks of age.
	200	For prevention of ulcerative enteritis in growing quail due to <i>Clostridium colinum</i> susceptible to bacitracin methylene disalicylate. Feed continuously as the sole ration.
Feedlot beef cattle	mg per head per day 70 (continuously)	For reduction in the number of liver condemnations due to abscesses in feedlot beef cattle.
	250 (5 days in 30)	For reduction in the number of liver condemnations due to abscesses in feedlot beef cattle.