

AVANT GUARD®

FEED ADDITIVE

PACKAGING AND CODES

Bags, net weight 40 pounds
Code: Nutra Blend C10067A0

Available from:
Nutra Blend, LLC,
Neosho, MO 64850
800-657-5657

Nutra Blend West,
Madera, CA 93637 / 503-982-9545
Hubbard, OR 97032 / 559-661-6161

Nutra Blend East,
North Troy, VT 05859
800-945-4474

PMI develops innovative combinations of animal feed additives that optimize performance in poultry, swine, dairy and beef cattle by supporting nutrient utilization and gut health. Working with feed nutritionists, manufacturers, veterinarians and producers, PMI products harness the interactions between feed additives to deliver value, efficacy and strong results. Through a comprehensive innovation approach, across component verticals, species, and geographies, PMI leverages the most advanced ingredients and technologies to develop products that perform.

PMI
Performance Minded.™

PMI
4001 Lexington Ave N
Arden Hills, MN, 55126
www.pmiadditives.com

- ▲ A purpose-driven product containing *Yucca schidigera* and yeast extracts
- ▲ Used in feed to support immuno-competence and animal performance in broiler, layer and turkey feeds

Nutritional programs are designed to optimize animal performance and production efficiency. Inclusion of functional ingredients such as direct-fed microbials, plant extracts, essential oils and antibiotic growth promoters are often directed at supporting optimal gut integrity.

Strategies that combine these tools can be needed to ensure success. High gut integrity results in optimal gut structure providing a large surface area for digestion and nutrient absorption. High gut integrity also requires low energy expenditure for maintenance; more nutrients are available for production parameters.

AvantGuard® Feed Additive (AvantGuard® FA) consists of a carefully optimized combination of prebiotic polysaccharides obtained from food grade yeast extract, providing glucans, mannans, quitines and galactans, plus saponins obtained from the *Yucca Schidigera* plant. These are functional ingredients that support immuno-competence and gut integrity for optimal poultry performance.

RECOMMENDED INCLUSION LEVEL

Diet Phase for Broilers and Turkeys:

Starter: Include at a rate of 1 lb. per ton of complete feed

Grower: Include at a rate of 1 lb. per ton of complete feed

Finisher: Include at a rate of 0.75 lb. per ton of complete feed

Diet Phase for Layers:

Pre-Lay Starters: Include at 1.0 to 1.5 lbs./ton of complete feed

CHALLENGED TURKEY TRIAL WITH AVANTGUARD® FEED ADDITIVE

A 28-day trial performed in 2013 by Southern Poultry Research Inc demonstrates the performance of AvantGuard® FA in turkey hens challenged with a mixture of *Eimeria meleagrimitis* and *Eimeria adenoids*. The trial consisted of 42 cages starting with 8 female poults per cage. The treatments were replicated in 6 blocks, randomized within blocks of seven cages each. Dietary treatments compared Avatec® (1.1 lb/ton), Histostat® 50 (0.5 lb/ton), AvantGuard® FA (1 lb/ton) to non-medicated controls.

| Group | Treatment Product | Coccidial oocyst inoculation | Treatment name |
|-------|-----------------------------|------------------------------|----------------|
| 1 | Non-medicated/ non-infected | No | NMNI |
| 2 | Non-medicated/ infected | Yes | NMI |
| 3 | Avatec® | Yes | Avatec |
| 4 | Histostat® | Yes | Histostat |
| 5 | AvantGuard® FA | Yes | AvantGuard |

On day 20 each cages' fecal material was scored after a 24-hour collection on pans. A score of 0 to 3 was given.

0 = Droppings are completely normal.

1 = Droppings are slightly moist with a small scattering of mucus and/or blood.

2 = Droppings are semi-liquid with scattered mucus and/or blood.

3 = Droppings are liquid with profuse mucus and/or blood.

TABLE 1. 28-day Results

| Treatment | Accumulative Feed Consumption, lb. | Weight Gain, lb. | Feed/Gain |
|----------------|------------------------------------|--------------------|--------------------|
| NMNI | 12.362 ^a | 0.998 ^a | 1.656 ^a |
| NMI | 12.459 ^a | 0.913 ^b | 1.786 ^b |
| Avatec® | 11.526 ^b | 1.010 ^a | 1.518 ^c |
| Histostat® | 11.888 ^{ab} | 1.012 ^a | 1.523 ^c |
| AvantGuard® FA | 11.518 ^b | 0.975 ^a | 1.552 ^c |

^{a,b,c} Different superscripts in same column are significantly different (P< 0.05)

TABLE 2. Dropping Scores and OOcst Shedding Counts

| Treatment | Dropping Score | OOcst per Gram |
|----------------|-------------------|------------------------|
| NMNI | 0.0 ^c | 0.0 ^b |
| NMI | 2.3 ^a | 14,985.0 ^a |
| Avatec® | 2.0 ^{ab} | 2,246.0 ^b |
| Histostat® | 1.2 ^b | 10,038.0 ^{ab} |
| AvantGuard® FA | 1.7 ^{ab} | 2,512.0 ^b |

^{a,b,c} Different superscripts in same column are significantly different (P< 0.05)