

# BASTION®

FEED ADDITIVE

## PACKAGING AND CODES

Bags, net weight 40 pounds  
Code: Nutra Blend C10069A2

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

- ▲ Judiciously combined product including probiotics, *Yucca schidigera*, yeast extracts, and essential oils
- ▲ Supports immuno-competence and overall performance
- ▲ Designed for broilers, layers and turkeys

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.

Bastion® Feed Additive (Bastion® FA) consists of a carefully optimized combination of essential oils, prebiotic polysaccharides obtained from food grade yeast extract, providing glucans, mannans, quitines and galactans, plus saponins obtained from the *Yucca Schidigera* plant and a combination of probiotics delivering 290 Billion CFU/lb of total microbial count. These are all functional components that support immuno-competence and gut integrity for optimal poultry performance.

## RECOMMENDED INCLUSION LEVEL

### Broilers:

Starter: Include at a rate of 1.25 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

### Turkeys:

Starter: Include at a rate of 1.5 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 1 lb. per ton of complete feed

### Layers:

Pre-Lay Starters: Include at a rate of 1.25 lbs. per ton of complete feed

# CHALLENGED BROILER TRIAL WITH BASTION® FEED ADDITIVE

A trial performed in 2014 by Virginia Diversified Research, Corp demonstrates the performance of Bastion® FA in cocci-challenged broilers. A 42-day, 48-pen floor pen study was conducted to evaluate 1,200 broiler chickens fed diets supplemented with Bastion® FA at the recommended rate and dosed with live coccidia vaccine, in comparison to negative control; no additive or cocci-vaccine (nCON)

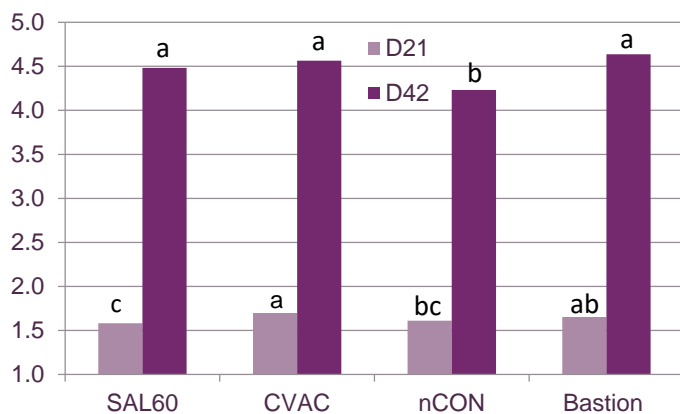
BMD® (50 g/ton) + Stafac® (20 g/ton) and cocci-vaccine dosing (CVAC)

BMD®/ Stafac® and Salinomycin (60 g/ton) in feed (SAL60).

All study birds were cocci-challenged on Day 4 by adding to each pen 4 lb of used litter from a previous flock known to have at least a moderate challenge from *E. acervulina*, *E. maxima* and *E. tenella*. Feeds in mash form were fed on a schedule of Days 0 – 21, 22 – 35 and 36 – 42 of starter, grower and finisher feeds respectively.

Treatment Name	Treatment Product	Cocci-Vac
SAL60	BMD® 50/STAFAC® 20 + Salinomycin 60	No
CVAC	BMD® 50/STAFAC® 20	Yes
nCON	No Additives, No CVAC	No
Bastion	Bastion® FA	Yes

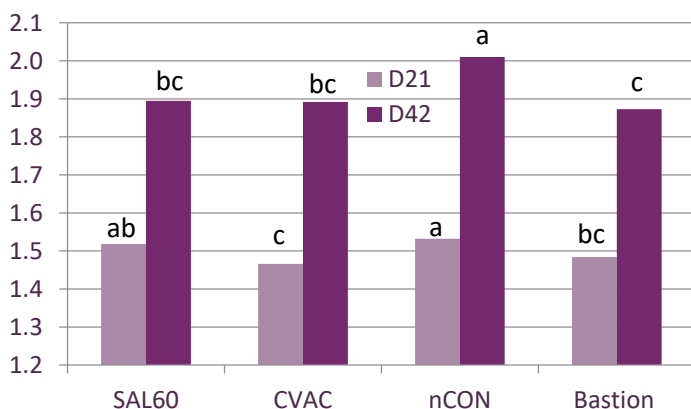
## Broiler Weight (lbs.)



Means without a common letter superscript differ significantly (P≤0.05).

42 day Avg. Body Weight	Bastion® FA
Compared to nCON	↑ 0.405 lb.
Compared to SAL60	↑ 0.155 lb.
Compared to CVAC	↑ 0.072 lb.

## Broiler Feed Conversion (lb./lb.)



Means without a common letter superscript differ significantly (P≤0.05).

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Because of factors outside of PMI Nutritional Additives' control, individual results to be obtained, including but not limited to: financial performance, animal condition, health or performance cannot be predicted or guaranteed by PMI Nutritional Additives.

42 day Feed Conversion	Bastion® FA
Compared to nCON	↓ 0.137
Compared to SAL60	↓ 0.022
Compared to CVAC	↓ 0.019



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