



HUMISYN[®]

SYNERGISTIC BLEND OF
ORGANIC ACID SOURCES

FOR POULTRY





HumiSyn™ nutrition solutions for poultry was developed over multiple years of animal nutrition research identifying the synergetic combination of naturally occurring organic compounds and short-chain fatty acids.

Naturally occurring organic acids such as humic and fulvic acid are the two main bioactive ingredients found in humic substance. Humic substances are the result of decomposition of plant, animal and microbial residues over many thousands of years. Humic substances are the main constituents of soil but there are recognized geological formations around the world that are particularly rich in humic substances and are commercially mined for agronomy and for human and animal nutrition.

Scientific observations have shown these known benefits of feeding humic substance to animals:

- Can help improve intestinal health
- Can improve the level of endogenous antioxidant
- Can influence a more favorable energy status
- Can help mitigate the negative effects of stress
- Can bind some mycotoxins present in feed

HumiSyn is available in two different delivery methods for poultry of all life stages – free flowing granular for feed formulation and a liquid concentrate for administration in drinking water.



Butyric acid is a short-chain fatty acid that plays a key role as an energy source for digestive cells. When added to animal feed butyric acid can help improve the gut barrier function and villus height to crypt depth ratio, which can facilitate better nutrient absorption. Additionally butyric acid can help support immune function and help decrease the colonization of pathogenic bacteria in the gut.

Historically, the use of in-feed antibiotics has been a management tool to mitigate negative impacts of necrotic enteritis, a disease that causes increased mortality, decreased growth performance and poorer feed conversion rates (FCR). Regulations and consumer demand leading to reduction in antibiotic usage have led to a need for alternative strategies focused on improving intestinal health to help control the negative impacts of necrotic enteritis and other challenges.



HUMISYN™
IFC4

**FREE FLOWING
GRANULAR FORM**

HumiSyn™ IFC4 is a free-flowing granular additive for poultry feeds. HumiSyn™ IFC4 is a precise formula of a proprietary fresh water Reed-Sedge Peat and glycerol tributyrates. The combination of these ingredient sources have demonstrated to provide health and performance benefits particularly in the presence of a disease challenges or stress events.

HumiSyn™ IFC4

Ingredients: Reed-Sedge Peet, Glycerol (glyceryl), Tributyrates (tributyrin, butyrin), Silicon Dioxide, Natural Extractives

Recommended Feeding Rates

<i>Poultry</i>	<i>lbs/ton of HumiSyn IFC4</i>
Broiler	2.0 - 4.0
Layer	2.0 - 4.0
Turkey	2.0 - 4.0

Feed continuously per animal life stage or as needed particularly during times of stress.

For detailed mixing and feeding directions, consult your Kent Nutrition Group feed representative.





HUMISYN[™]
WSC4

LIQUID CONCENTRATE FORM

HumiSyn[™] WSC4 is a concentrated liquid blend for poultry that can be easily administered via drinking water. A scientifically researched and proven formulation of naturally occurring organic acids and short chain fatty acids.

HumiSyn[™] WSC4

Ingredients: Reed-Sedge Peat, Mono and Diglycerides of Butyric Acid, Artificial Flavors, Dried bacillus amyloliquefaciens Fermentation Product, Water.

Starting Broilers and Game Birds: Shake HumiSyn WSC4 well. Thoroughly mix 4 oz. of HumiSyn WSC4 into one gallon of stock solution. Administer stock solution via a water proportioner set to deliver a rate of 1 oz. per gallon of water (1:128) for 7 days post-hatch or as needed, particularly during times of stress.



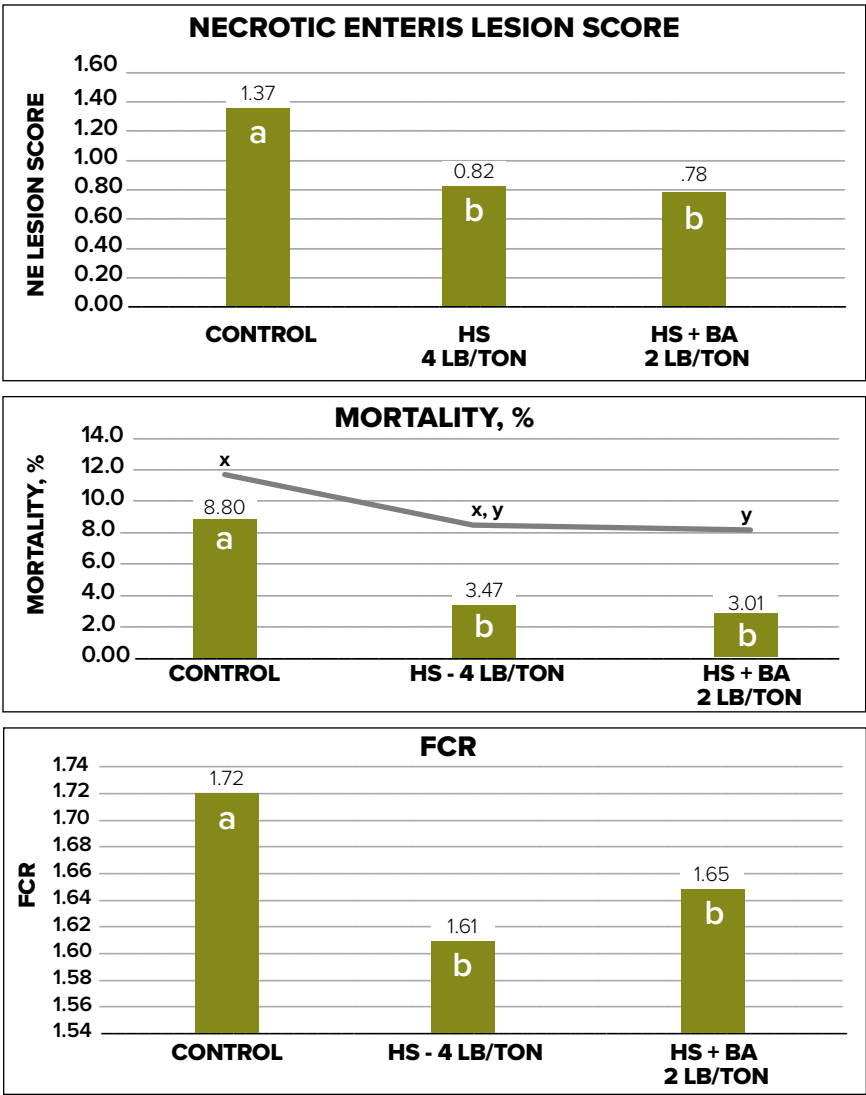
Starting Turkeys: Shake HumiSyn WSC4 well. Thoroughly mix 8 oz. of HumiSyn WSC4 into one gallon of stock solution. Administer stock solution via a water proportioner set to deliver a rate of 1 oz. of stock solution per gallon of water (1:128) for 7 days post-hatch or as needed, particularly during times of stress.

Layers (Production, Maintenance, Breeding): Shake HumiSyn WSC4 well. Thoroughly mix 2 oz. of HumiSyn WSC4 into one gallon of stock solution. Administer stock solution via a water proportioner set to deliver a rate of 1 oz. of stock solution per gallon of water (1:128) as needed, particularly during times of stress.

Figure 1. The effect of feeding humic substance (HS) or HS plus butyric acid (BA) on intestinal lesion scores, mortality and feed conversion rate (FCR) in broilers challenged with *Clostridium perfringens*.

Feeding HS or HS plus butyric acid may allow for greater resilience in the face of enteric challenges such as necrotic enteritis.

Figure 1.



^{a, b} Bars in graphs with different letters are different ($P \leq 0.05$).

^{x, y} Treatment groups tend to differ ($P \leq 0.10$).



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