

NeutraPath®

Amlan has answered the call for the best solution to naturally support the production efficiency of poultry. NeutraPath® is a proprietary blend of essential oils, medium-chain fatty acids and a thermally processed mineral. The synergistic formula was designed to have multiple modes of action that enhance intestinal health, improve feed efficiency and reduce mortality of necrotic enteritis challenged birds.

SUMMARY RESULTS FROM CHALLENGE STUDIES 0-28 DAYS

Detailed results on following page

BMD		NeutraPath®
16%	MORTALITY	13%
1.71	FCR	1.70
0.78	WEIGHT GAIN	0.80
131	EPEF*	146

*EPEF or "European Performance Efficiency Factor" is an index used in many countries to standardize and compare broiler results from different flocks or regions by taking into account Feed Conversion, Mortality and Daily Gain.

KEY BENEFITS OF NEUTRAPATH

Helps Maintain Gut Health & Structural Integrity

- Binds toxins that break down enterocyte tight junctions, reduces the incidence of "Leaky Gut"
- Supports tight junction integrity, prevents pathogens, toxins, and other antigens from entering host circulatory system
- Reduces pathogen and toxin entry into circulatory system, supports overall good health and productivity

Bactericidal & Bacteriostatic Effect

- Impairs bacterial cell functions
- Compromises bacterial cell integrity
- Prevents bacteria from replicating
- Specific binding of pathogenic bacteria

Virulence Factor Neutralizer

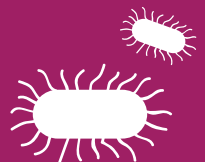
- Binds toxins produced by pathogenic bacteria
- Binds quorum-sensing (*bacteria communication*) molecules
- Downregulates pathogenic bacteria gene expression

1



REDUCES PATHOGENIC BACTERIAL LOAD & COLONIZATION

2



IMPROVES PERFORMANCE OF NECROTIC ENTERITIS CHALLENGED BROILERS

3



IMPROVES INTESTINAL HEALTH & REDUCES MORTALITY

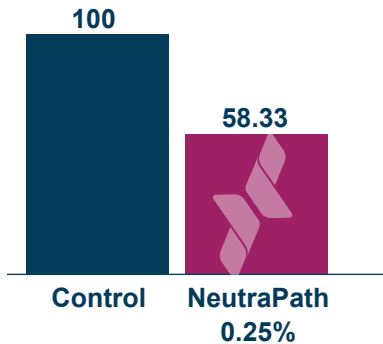
Independent trials exhibit NeutraPath's ability to improve performance in an antibiotic free environment. Four trials with similar designs were conducted at Southern Poultry Research; average results across the trials are shown below. Birds were challenged with *Clostridium perfringens* at 2 weeks of age and grown to day 28.

	NE MORTALITY	FEED CONVERSION	GAIN (KG)	EPEF*
		D0-28	D28	
Unchallenged Control	0.25	1.57	0.913	189.88
Challenged Control	34.95	1.97	0.603	66.73
BMD	15.64	1.71	0.823	131.25
NeutraPath[®]	13.22	1.70	0.803	145.83

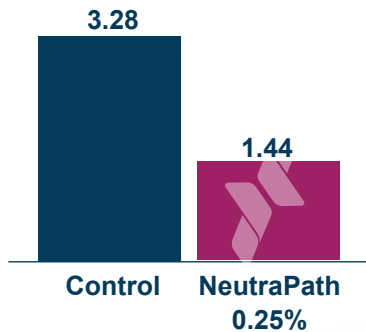
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REDUCED BACTERIAL LOAD IN CECA

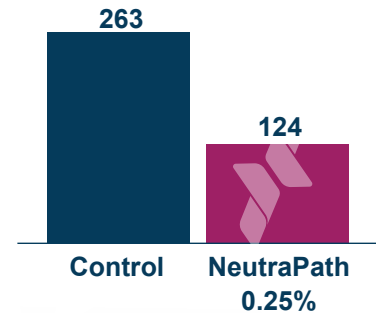
S. Typhimurium Positive/Total (%)



S. Typhimurium Bacterial Load
Log₁₀ cfu/g



S. Typhimurium Challenge
Serum FITC-d (mg/ml)



University of Arkansas (2019)

REDUCED GUT PERMEABILITY



Use alone or with other Amlan products in synergistic combinations for optimal health and performance results.

