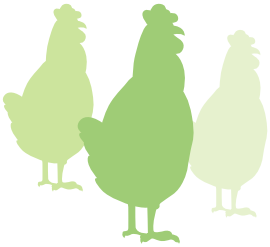
CERTILLUS™

Targeted Microbial Solutions

Reduce energy inputs without sacrificing performance.



It isn't easy keeping birds healthy and thriving in times of fluctuating feed costs and inconsistent feed quality.

Making ration substitutions may seem tempting but could lead to digestibility issues from inconsistent feed quality.

WHAT IF YOU COULD REDUCE RATION COST AND MAINTAIN PERFORMANCE?

LESS ENERGY.

What if you could reduce the amount of energy fed in the ration and still get the productivity you need?

FEWER DIGESTIBILITY CHALLENGES.

What if you could prevent digestibility challenges due to inconsistent feed quality?

IMPROVED GUT FUNCTION.

What if you could improve nutrient absorption and gut integrity while reducing gut inflammation?

WITH CERTILLUS™, YOU CAN.

CERTILLUS™ Perform Poultry Energy is a feed additive containing beneficial strains of *Bacillus subtilis* that have been proven to contribute to significantly improved performance—even when fed as part of a ration with a reduced amount of energy.

THE PROOF IS IN THE RESEARCH.

A recent study[1] showed that CERTILLUS™ Perform Poultry Energy contributed to significantly improved performance with the most significant changes realized when fed a lower energy ration.

The study was designed as a 2x2 factorial with two levels of energy and two levels of CERTILLUS: The positive control (PC) diet was formulated with normal apparent metabolizable energy (AME) and supplemented with two levels of test product (with or without CERTILLUS Perform Poultry Energy). The negative control (NC) diet was formulated with -50 kcal AME, and two levels of test product (with or without CERTILLUS Perform Poultry Energy).

STUDY RESULTS

- A decrease in energy by 50 kcal showed a tendency for reduced 42-day body weight (BW) and increase in feed conversion ratio (FCR) of broilers.
- Supplementation with CERTILLUS Perform Poultry Energy showed a tendency for increased BW in broilers fed normal energy as well as reduced energy diet, and FCR similar to broilers fed the PC diet.

EFFECT OF TREATMENTS ON BROILER PERFORMANCE.

Treatments	42-day BW	Cumulative Feed Intake	FCR
PC	2702.7^{ab}	4094.4	1.540^{a}
PC + CERTILLUS Perform Poultry Energy	2740.3^{b}	4128.6	1.532^{a}
NC (-50 kcal AME)	2632.9^{a}	4070.3	1.572^{b}
NC + CERTILLUS Perform Poultry Energy	2689.7^{ab}	4073.0	1.539^{a}

Means with dissimilar superscripts in a column varied significantly (P<0.05).

Research suggests that better energy partitioning is driving the improved performance by making more energy available for growth despite the lower energy content of the ration. A combination of improved digestibility and nutrition absorption, as well as better gut barrier and immunity, appears to account for this improved nutrient partitioning.

RESEARCH-PROVEN PERFORMANCE WITH CERTILLUS

Parameters	NC diet (-50 Kcal AME)	NC diet + CERTILLUS Perform Poultry Energy	*P*-Value
Inflammatory marker, ∝-1-AGP, µg/mL	279.09	221.1	<0.05
Barrier function and dysbacteriosis indicator, serum D-lactate, nmol/µL	0.323	0.265	<0.05
Mucosal immunity marker, sigA, µg/mL	6.73	8.2	<0.05
Nutrient transporter fold change, SGLT-1	168.4	319	<0.10
Apparent Ileal Digestibility, DM	0.705	0.755	<0.05
Apparent Ileal Digestibility, Nitrogen	0.711	0.741	<0.05

GET STARTED TODAY.

Ready to reduce energy inputs and ration costs while maintaining performance and improving gut health? CERTILLUS Perform Poultry Energy can help.

To learn more about CERTILLUS Perform Poultry Energy, contact your ARM & HAMMER™ representative.

Powered By Microbial Terroir™

1 Jalukar S, Haldar S, Dey S, Sarkar A, Dhara A. A study on the nutrient sparing effects of a direct fed microbial preparation in male broiler chickens. Agrivet-AH-DFM-Broiler, Agrivet Research & Advisory P Ltd, April 2022.

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