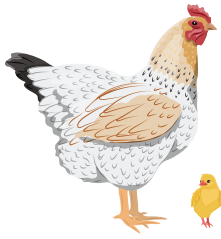


Energy Reduction & Improved FCR: The key to profitability

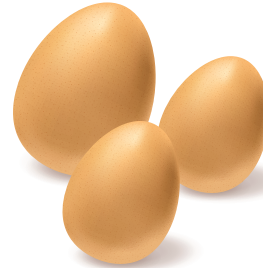


Experimental and commercial trials have proven that eMAX can replace certain growth promoters while improving the productive performance in layers and broilers, reducing the presence of *Salmonella* and *E. coli* in the flock, ultimately saving thousands of dollars on the bottom line.

PERFORMANCE



Broilers using eMAX feed additive saw a reduction of 2 points in FCR compared to the control group.



Layers using eMAX as a feed additive on top, saw an increase of at least 2% in egg production and an increase in egg size and category.

HEALTH

Our studies show that the *Bacillus* probiotics in eMAX reduce at least 3 logs of *Salmonella* and 4 logs of *E. coli* reducing the incidence of infections and mortality in the flock.

Producers also noted a decrease in wet litter, indicating an improvement in gut health and morphology.

ENERGY REDUCTION & PERFORMANCE PARAMETERS

The improvements in gut morphology and overall health help to improve the production efficiency. eMAX can be used in a lower energy diet, maintaining an optimum performance, while lowering the feed cost.

The table shows the results from an experimental trial evaluating a control diet and a lower energy eMAX diet. The eMAX group has 3% less energy in the grower and finisher diet compared to the control group.

Item	Control Group	eMAX Diet	p-value
LWG(g)	2076.83	2051.17	>.005
Feed Intake (g)	2691.99	2653.5	>0.53
FCR (g/g)	1.296	1.294	>0.05
Livability (%)	100	99.5	>0.196
Energy ME (kcal/kg)			Diet
	2975	2975	Starter
	3025	2934	Grower
	3100	3007	Finisher

- eMAX was created to use as an antibiotic alternative to improve the bird's health, welfare, and production yields.
- eMAX can be used on top to address concerns like pathogenic presence or poor intestinal health and structure.
- eMAX can also be used in an energy reduction program improving gut health and reducing the diet cost significantly.

PROFITABILITY

Poultry farmers using eMAX are able to produce lower energy feed, reduce the dependence on antibiotic growth promoters and exogenous enzymes, and improve growth and laying performance.

Feed Cost (USD/MT)

Feed Intake (kg)

Feed for farm with 300,000 birds (MT)

Total Feed Cost

Without eMAX	With eMAX
\$572.23	\$555.52
2.96	2.654
807.597	796.05
\$462,131.23	\$442,221.70

Poultry producers who switch to eMAX and eliminate the use of probiotics and antibiotics have seen the following cost savings and improved profitability.

With the eMAX energy reduction program, this farmer saves \$16/MT of feed!

Monthly/Annual Savings with eMAX

\$19,909.54 / \$139,366.7

Without eMAX

Feed Cost \$572.23/MT
Total Feed for 300k Birds 807.597/MT
 $\$572.23/MT \times 807.597MT = \$462,131.23$

With eMAX

Feed Cost \$555.52
Total Feed for 300k Birds 796.05/MT
 $\$555.52/MT \times 796.05 MT = \$442,221.70$

GET STARTED WITH A FREE TRIAL

- ✓ Improve the health of your flock
- ✓ Increase egg production
- ✓ Increase egg size
- ✓ Increase growth performance
- ✓ Decrease *Salmonella* & *E. coli* presence
- ✓ Improve FCR
- ✓ Increase your profits

1

Set up a call with our team to discuss your needs

2

Schedule a free trial with our eMAX solution

3

Fully implement eMAX in your operations to realize profits

Contact us at info@engrain.us | www.engrain.us