

**VIRIBUS™**  
ESSENTIALS

**VIRIBUS™**  
T



VIRIBUS



FURST-MCNESS COMPANY



# VIRIBUS™ ESSENTIALS

VIRIBUS™ ESSENTIALS is an essential feed technology to start your birds right. Proven in research, and proven in live production, VIRIBUS™ ESSENTIALS allows birds to get off to the very best start by supporting maximum feed intake and optimum gut development. It aids in supporting gut health, feed efficiency, growth rate and livability, while reducing feed cost and ammonia excretion. The proprietary combination of ingredients included in VIRIBUS™ ESSENTIALS enables the birds to successfully adapt to nutritional, environmental and health stress factors, which help improve overall performance. Can be used in all classes of birds.

### Key Benefits

- Supports feed intake by up to 10% in young chicks and poults
- Supports early feed intake
- Improves performance, including Average Daily Gain and Feed Conversion Rate.
- Supports growth rate and feed conversion in coccidia-challenged birds (Lumpkins et al. 2018).
- Decrease ammonia shedding, which can aid in decreasing foot pad lesions.
- A unique approach to reducing cost of production, by supplementation in early diets, supporting improved performance later

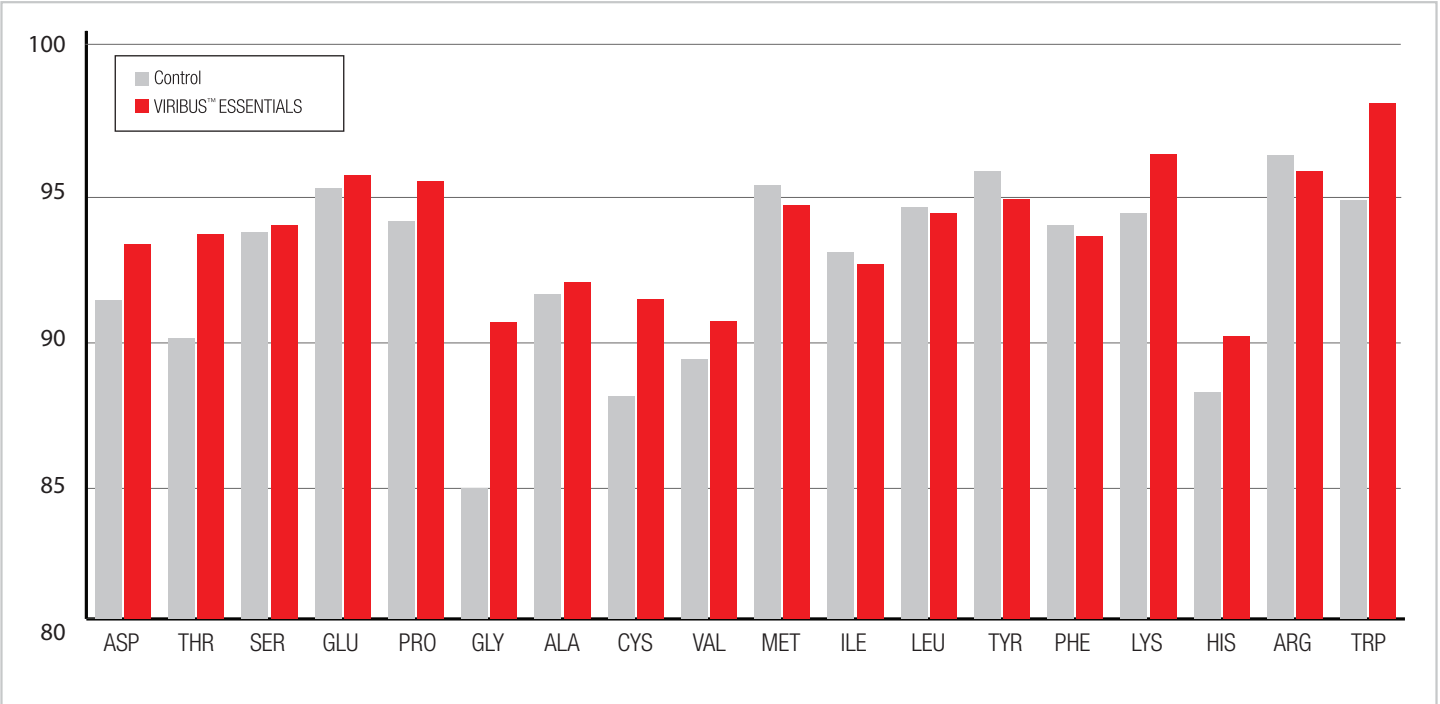
### Research shows:

- Turkeys on VIRIBUS™ ESSENTIALS were 4.5% heavier ( $P<0.01$ ) with no change in feed efficiency (1.68 vs 1.68;  $P=0.895$ )
- Turkeys had a numerical improvement in survivability of 1% point (98.6% vs 95.8%;  $P=0.367$ )
- Turkeys on VIRIBUS™ ESSENTIALS consumed 4.8% ( $P<0.05$ ) more feed and therefore grew 4.6% faster

Table 1 shows the results of the University of Illinois Amino Acid Digestibility study. The average amino acid digestibility of control diet was 92% compared to 93% with VIRIBUS™ ESSENTIALS. In terms of essential amino acids threonine, lysine, histidine and tryptophan were all improved by a large amount. In terms of nonessential amino acids glycine (an important energy source for intestinal cells), cystine (a critical amino acid in poultry) and proline were improved.

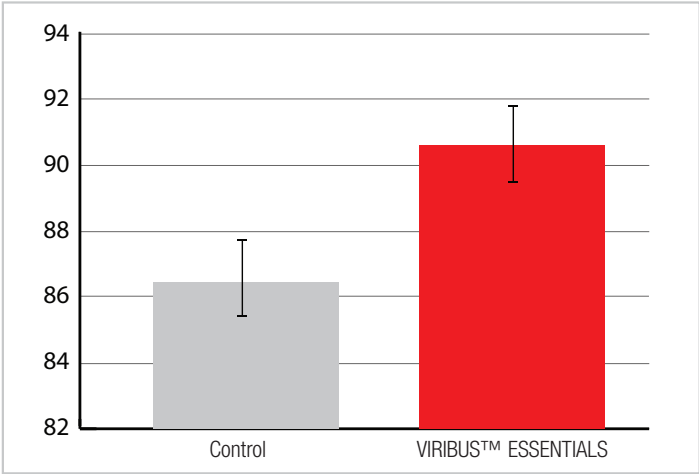


Table 1  
University of Illinois amino acid digestibility, starter

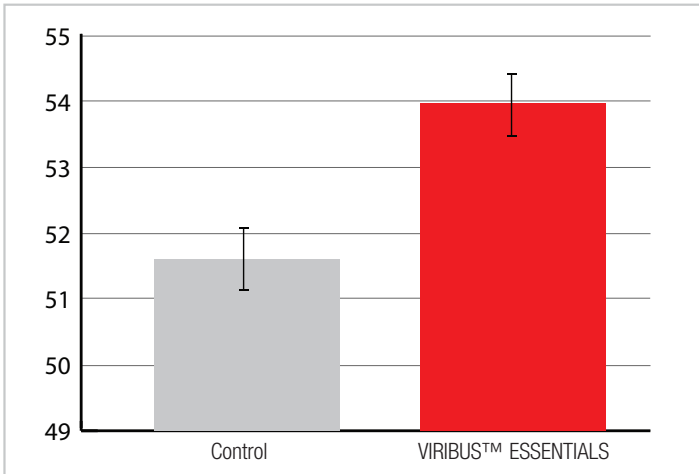


Turkeys supplemented with VIRIBUS™ ESSENTIALS get off to the best possible start for maximum lifetime performance.

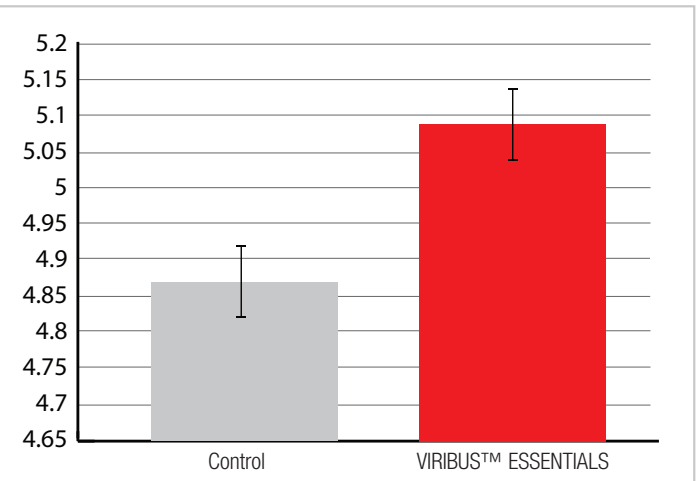
Average Daily Feed Intake (g/d)



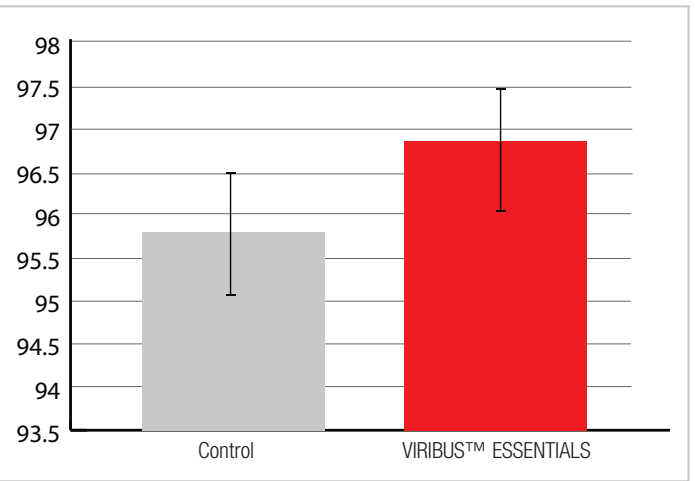
Average Daily Gain (g/d)



42 Day Body Weight (lbs)



42 Day Survivability (%)



Feeding Instructions

- Standard feeding rates:
  - Starter diet 3 lbs per ton
  - Grower diet 2 lbs per ton
  - Finishing diet 1 lb per ton
- Layers: 2 lbs per ton
- During times of enteric upset, use 3 lbs per ton
- Replace up to 10 lbs of fat for each 1 lb of VIRIBUS™ ESSENTIALS

VIRIBUS™ ESSENTIALS		
Order Code	50# Bag	650112
	2000# Tote	150112







# VIRIBUS™ T

VIRIBUS™ T is a feed ingredient specifically for turkeys that provides minerals, vitamins and critical phytonutrients that, together support feed intake and maintain health. By supporting and maintaining feed intake, VIRIBUS™ T can help maintain performance, even in challenged conditions and environments. The individual components of VIRIBUS™ T are tried and tested, however it is the proprietary combination of nutrients and phytonutrients that make VIRIBUS™ T such a unique and consistently performing technology. VIRIBUS™ T has been tested extensively in field settings both in the brood and in the finishing phase with great success.

### Key Points From Trial (next page):

- VIRIBUS™ T supported improved rate of gain that yielded a 1.47 lb heavier bird (even with reduced fat)
- Adjusted Feed Conversion was improved by -0.04
- Net Livability improved by 3.7% points (84.7% vs 81%)
- Improved Margin over Feed cost of \$0.38 per bird

### Feeding Instructions

#### Turkeys

- Add 5 pounds per ton of finished feed of VIRIBUS™ T to rations for the first 4 weeks after placement.
- Add 2.5 to 5 pounds per ton of finished feed of VIRIBUS™ T to rations for the last 4 weeks prior to harvest.

VIRIBUS™ T		
<div>Order Code</div>	50# Bag	650110
	2000# Tote	150111

### VIRIBUS™ T live production trial

A large scale trial that included 134,000 turkeys was ran to determine the impact of VIRIBUS™ T on overall turkey performance and health, and how it may impact overall profitability.

Table 1  
Summary of the implementation of VIRIBUS™ T offsetting fat in the ration to reduce cost of implementation

Finishing Diet Phase	1	2	3	4	5	6
Start Age	84	90	98	111	117	124
End Age	89	97	110	116	123	133
LBS/hd	9	6	10	5	7.5	24
VIRIBUS™ T' #/ton	2.5	3	3.5	5	5	5
Corn Oil lbs/ton Standard Diet	150	150	170	180	180	180
Corn Oil lbs/ton in VIRIBUS™ T Diet	125	125	140	140	140	140
Reduction in Oil with VIRIBUS™ T	25	25	30	40	40	40

Table 2  
Summary of large scale field trial with VIRIBUS™ T on performance and marketing of turkeys

	Control	VIRIBUS™ T	VIRIBUS™ Advantage
Age - Total Days	136.0	136.2	
Barns Placed	6	5	
Head Started	93100	41200	
Gross livability %	81.5%	85.1%	3.6%
Gross Average Weight	42.4	43.9	1.47
Gross Ave Wt @ 137 Days	42.68	44.10	1.42
Rate of Gain	0.3115	0.3219	0.0104
Feed Intake	0.78	0.82	0.0357
Feed Conversion	2.51	2.54	0.0300
Adjusted (40 lbs) Feed Conversion	2.41	2.38	-0.0356
DOAs %	0.30%	0.34%	0.03%
Condemn Whole Bird %	0.15%	0.05%	-0.09%
Condemn Parts %	0.75%	0.54%	-0.21%
Net livability % (A/C & DOA)	81.0%	84.7%	3.73%
Total Cond. & DOA's %	1.20%	0.93%	-0.27%
Corrected Feed Cost Per Bird	14.13	14.67	0.532
Cost Per LB of Net Average Weight Gain	0.335	0.336	0.001
Revenue Per Bird (assuming \$0.60/lb live)	25.27	26.18	0.907
Revenue less Feed Cost (Margin over Feed)	\$ 11.14	\$ 11.51	\$ 0.38



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**mcness.com**

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