



# PoultriMax™

THE SCIENCE OF PROBIOTIC PROTECTION

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## EFFECT OF POULTRIMAX™ ON MALE TURKEY PERFORMANCE AND PROCESSING

Source: James L. McNaughton, AHPharma, Inc Salisbury, MD, 2012

### OBJECTIVE:

1. To determine the effect of *Lactobacilli* feed formula on large-bird market age turkey male performance reared on built-up litter.
2. To determine if *Lactobacilli* may reduce the potential of *Salmonella* incidence and *E. coli* counts (CFU's/ml of carcass rinse solution) in whole-bird rinse samples taken after complete processing.

- Breed: Nicholas White
- Birds/Treatment: 216
- Density: 3.33 ft<sup>2</sup>/ Bird
- Replication: 12
- Duration: 84 Days

FEED TYPE	Days of Age	Protein, %	ME, kcal/lb
Starter	0 - 21	28.00	1300
Grower	22 - 42	26.00	1350
Finisher	43-84	23.00	1400

Treatment was added to each respective ration starting on day 0 through day 84.

PRODUCTION RESULTS				
	Gain, lbs	Feed Efficiency	Lesion Score	Mortality, %
CONTROL	22.79 <sup>a</sup>	1.86 <sup>b</sup>	1.042 <sup>b</sup>	1.56
POULTRIMAX™	23.56 <sup>b</sup>	1.79 <sup>a</sup>	0.583 <sup>a</sup>	1.04
DIFFERENCE	0.77	-0.07	-	-

<sup>a,b</sup> Means within a column with unlike superscripts are significantly different (P < 0.05) as determined by Least Significant Difference.

PROCESSING RESULTS, lbs			
	Breast Yield	Major Pectoral	Minor Pectoral
CONTROL	3.80 <sup>a</sup>	2.91 <sup>a</sup>	0.89 <sup>a</sup>
POULTRIMAX™	4.10 <sup>b</sup>	3.16 <sup>b</sup>	0.95 <sup>b</sup>
DIFFERENCE	8%	9%	7%

<sup>a,b</sup> Means within a column with unlike superscripts are significantly different (P < 0.05) as determined by Least Significant Difference.

### SUMMARY:

- *Salmonella* incidence was reduced by 47.8% (P < 0.05) from 34.31% to 17.92 % when *Lactobacilli* was fed.
- *E. coli* count (log 10) was reduced (P < 0.05) from 109.05 to 80.55 when *Lactobacilli* was fed.

