



Phibro Introduces a More Concentrated Form of Magni-Phi® Nutritional Specialty Product

Magni-Phi nutritional specialty product is composed of two saponin ingredients that have been shown to improve intestinal integrity and the immune response in poultry. The saponins in Magni-Phi are sourced from *Quillaja saponaria*, the Chilean soap bark tree, and *Yucca schidigera*, a desert plant common to the U.S. Southwest. Research has shown that when formulated in the appropriate ratio, these saponins support intestinal integrity, enhance nutrient utilization, and in turn, improve growth performance of broilers.

The original version of Magni-Phi contains approximately 4% total saponins. The new version, called Magni-Phi Ultra, is more concentrated and has an 8% total saponin content. Since the new formula contains twice the saponin content, one-half of the standard amount is needed to achieve the desired level of Magni-Phi per ton of feed. Thus, to achieve a level of 113 grams Magni-Phi per 2,000 lb of feed (equal to 250 ppm), 0.25 lb of Magni-Phi Ultra should be added to each short ton. Table 1 shows typical feeding rate target levels used for Magni-Phi in broiler chickens and the amounts of Magni-Phi Ultra needed to achieve those levels.

Table 1. Magni-Phi Ultra Additions to a Short Ton of Feed.

Magni-Phi Target Level in Feed	Amount of Magni-Phi Ultra Added to Each Ton*	
	Pounds	Grams
ppm		
250	0.25	113.5
500	0.50	227.0
750	0.75	340.5

*Short ton (2,000 lb)

Magni-Phi Ultra continues to improve intestinal integrity and immune response which leads to improved performance and reduced mortality in broilers reared under enteric disease challenge. Table 2 shows the pooled results of two recently completed dose titration trials with Magni-Phi

Ultra. With each successive increase in the level of Magni-Phi Ultra that is fed, body weight gain, feed conversion ratio and total mortality were improved.

Table 2. The effects of graded levels of Magni-Phi Ultra on 42-day performance and mortality of coccidiosis-vaccinated broilers reared under enteric disease challenge¹:

	Body Weight Gain (g)	Feed Conversion (g:g)	Total Mortality (%)
Magni-Phi Ultra g/ton ¹			
0	2,264 ^c	1.902 ^a	7.13 ^a
113.5	2,435 ^b	1.804 ^b	2.33 ^b
227.0	2,504 ^{ab}	1.780 ^{bc}	1.44 ^c
340.5	2,577 ^a	1.760 ^c	0.84 ^c

¹Data are the results of two pooled floor pen trials. Enteric challenge was produced by commercial broiler litter taken from Delmarva farms that experienced coccidiosis and necrotic enteritis. Equal amounts of commercial litter were placed in each pen. Means within each column were separated by Fisher's LSD; means in columns with different superscripts are significantly different ($P < 0.05$).

*Magni-Phi Ultra levels shown are equivalent to 0, 250, 500 and 750 ppm, respectively, as shown in Table 1.

To learn more about Magni-Phi talk with a Phibro expert at 800.677.4623 or www.pahc.com.