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Mr. Wes Emerson
AZOMITE Mineral Products, Inc.
P.O. Box 21
Nephi, UT 84648

Dear Wes:

As you know, I am an avian nutritionist and have worked with many broiler complexes that produce one million plus broilers per week. I am writing at your request to provide you and other domestic and international companies some information concerning my history with AZOMITE plus some thoughts, observations and experiences with this product over the past 20 or so years.

I initially became interested when you provided copies of some research studies in the early 1990's. These studies indicated potential improvements for my company's complexes in broiler feed conversion, body weight improvement, breast yield and mycotoxin amelioration, especially aflatoxin.

My Tests – Although my comparative tests were completed in the early 1990's, I have been recommending AZOMITE to satisfied customers ever since that time. My first five field trials were completed in the Hope, Arkansas complex with the average inclusion rate of AZOMITE being 0.61% in these trials. All trials indicated commercially positive improvements.

Test 1 – 1992 – This was a basic test – Controls vs. AZOMITE – Weight 5.212 lbs. vs. 5.284 lbs; Feed Conv. 2.068 vs. 2.050

Test 2 – 1993 – Controls vs. AZOMITE test birds – Livability 97.17% vs. 98.01%; Weight 4.678 lbs vs. 4.830 lbs; Feed Conv. 1.916 vs. 1.858; Breast Yield 16.06% vs. 16.17%

Test 3 – 1994 – Controls vs. AZOMITE test birds – Livability 95.70% vs. 97.35%; Weight 5.061 lbs. vs. 5.090 lbs; Feed Conv. 1.924 vs. 1.919; Breast Yield 16.62% vs. 17.08%

Test 4 – 1994 – This data is the same AZOMITE test birds compared to all farms processed that week – Livability 96.46% vs. 97.35%; Weight 4.996 lbs. vs. 5.090 lbs.; Feed Conv. 1.967 vs. 1.919

Test 5 – 1994 – Overall yield test at Hope, Arkansas – AZOMITE was added to the total broiler rations for the summer and the overall yield was graphed. Within a month the yields started to increase and to exceed the historic yields. By the third month the overall complex yields were far exceeding the historic yields. AZOMITE was removed from the feed and subsequently yields dropped substantially.

- Summer Test (June-September) – AZOMITE yield improvement
 - + Yield improvement of 2.115% over two summers before (1992)
 - + Yield improvement of 3.383% over the summer before (1993)
 - Yield decreased 1.995% with the **removal of AZOMITE**

Test 6 – 1995 – Mycotoxin Test - Corydon Indiana – The complex was incurring very poor feed conversion due to poor management of a huge grain storage bin that was exhibiting a substantial amount of moldy corn being mixed in the feed. The related mycotoxins were extremely detrimental to the birds. I added AZOMITE to the feed and the broilers quickly showed a marked improvement in the feed conversion. When AZOMITE was removed from the feed the feed conversion again worsened. AZOMITE improved the livability; however I only found my initial notes concerning this aspect of the growout.

- * Average feed conversions – chickens > 4 lbs.
 - 1.92 – 7 weeks before the addition of AZOMITE
 - + 1.80 – 10 weeks during the test
 - 1.87 – first 9 weeks after the removal of AZOMITE
- * Livability before AZOMITE and during AZOMITE
 - 94.9% the 7 weeks before AZOMITE added
 - + 95.5% the 10 weeks during the AZOMITE test

Why I recommend AZOMITE Feed Grit – After repeatedly testing AZOMITE, I have added it to the feed in many complexes and still recommend AZOMITE Feed Grit (the most reasonably priced AZOMITE product and easy for the mill to handle). I find that complex managers, live production managers and feed mill managers appreciate the simple rationality in two main areas, and also for two performance reasons:

- * Mycotoxin amelioration – I have found that most managers believe that there are background toxins in virtually all incoming grains. They also appreciate knowing that AZOMITE is already in the feed when a car or trucks with higher toxin grains slip through their quality control.
- * Feed mill throughput – AZOMITE Feed Grit significantly increases feed mill throughput for most feeds that are difficult to push through the pellet mill as long as the mill is operating smoothly. Throughput improvement can be demonstrated in one morning without significantly affecting feed mill production.

* Other potential benefits – Other benefits are more difficult to demonstrate, but most managers appreciate the potential upside indicated by research. They get enthusiastic after they review research indicating that there is a potential for improvements in average daily gain (improved weight for age), feed conversion, immune response and resistance to necrotic enteritis (*clostridium prefringens*).

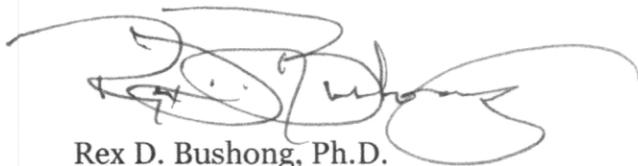
* Most recent research – A poster for a study completed by Southern Poultry Research was presented by Dr. Greg Mathis at the 2014 International Poultry Scientific Forum held just prior to the IPE in Atlanta, GA. In that study there were no statistical differences in body weight (just numerical improvements), however there were statistically significant improvements in feed conversion for the two kilocalorie levels for both the 0.25% and the 0.50% AZOMITE additions. There was a clue to those significant improvements because the duodenum villi heights were measured. The taller villi height for the AZOMITE birds should indicate more area for nutrient absorption. The villi and feed conversion improvements could logically be attributed to the distribution of many trace elements found in AZOMITE. The improvements recognized by the addition of AZOMITE (feed conversion and Villi height) indicate the positive effects of having AZOMITE in your feeding program.

* Test feed #1 (PC) – control feed 1417 kcal/lb; 0.25% AZOMITE 1413 kcal/lb; 0.50% AZOMITE 1410 kcal/lb

* Test feed #2 (NC) – control feed 1407 kcal/lb; 0.25% AZOMITE 1403 kcal/lb; 0.50% AZOMITE 1400 kcal/lb

I trust others will benefit from my sharing of my AZOMITE experience over the last 20 years. I also want the AZOMITE Team to know that I appreciate the benefits my complexes have received over these years and I am grateful for your responsive manner and courteous customer service personnel.

Sincerely,



Rex D. Bushong, Ph.D.
Texan Six Consulting