

WHAT IS AZOMITE®?

AZOMITE® is a natural feed additive mined in Utah, USA. AZOMITE® typically contains a broad spectrum of over 70 minerals and trace elements and is unlike any other geological deposit in the world. AZOMITE® carries an FDA GRAS classification, is listed for certified organic/natural use by the Organic Materials Review Institute (OMRI), and is certified for Halal.




Available in 44lb/20kg bags, in 1 MT totes, bulk truck loads and rail cars ~89 MT/rail car.



FAMIqs

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AZOMITE®
NATURAL TRACE MINERALS FOR FEED

POULTRY

NATURAL TRACE ELEMENT
ADDITIVE FOR FEED



BENEFITS OF AZOMITE®

In livestock, accredited research and industrial trials report that AZOMITE® improves:

- Digestive enzymes & feed digestibility
- Feed conversion ratio (FCR)
- Average daily gain (ADG)
- Eggshell quality
- Resistance to pathogens, such as *Clostridium perfringens*.



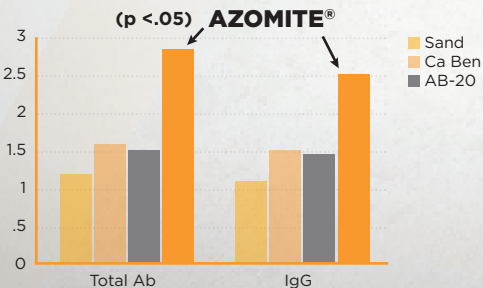
MODE OF ACTION OF AZOMITE®

AZOMITE® contains over 70 trace mineral elements, which have an effect on the natural digestive enzymes in the gut of all animals. Trial results with AZOMITE® have shown that inclusion of rates of 0.25% have boosted the digestive enzymes pepsin and pancreatic protease, which in turn improve an animal's ability to digest feedstuffs such as dry matter and crude protein. In addition, AZOMITE® has been shown to boost enzymes involved in improved immune functions.

This improved digestion has shown to lead to lowering of Feed Conversion Ratios by around 2% to 3%, and improving Average Daily Gain by around 1%.

IMMUNE RESPONSE IN BROILERS

TOTAL ANTIBODY AND IGG MEASUREMENTS
University of Wisconsin



The immune response doubled when AZOMITE® was added. IGG is primarily a protein - thus AZOMITE boosted protein synthesis.

RESEARCH: REPORTED IMPROVEMENTS

AZOMITE® IN BROILERS (0-21 DAYS)

University of Georgia USA Trial

AZOMITE® %	CONTROL	AZOMITE® 0.125%	AZOMITE® 0.250%	AZOMITE® 0.500%
Body Weights (grams)	970 ^b	1004 ^a	991 ^{ab}	987 ^{ab}
Feed To Grain	1.356 ^a	1.316 ^b	1.313 ^b	1.318 ^b

NECROTIC ENTERITIS CHALLENGED COBB MALES DAY 0 THROUGH 35

Colorado Quality Research USA

GROUP	1	2	3	4
TREATMENT DESCRIPTION	CONTROL	BMD (50g/ton)	AZOMITE® (0.5%)	BMD (50g/ton) + AZOMITE® (10lb/ton)
% MORTALITY	25.00% ^a	1.67% ^b	18.70% ^a	1.00% ^b
AVERAGE INDIVIDUAL BIRD WEIGHT GAIN (LBS.)	3.993 ^a	4.046 ^{ab}	4.024 ^b	4.157 ^a
ADJ. FEED CONVERSION	1.541 ^b	1.494 ^b	1.533 ^a	1.494 ^b
LESION SCORES	2.812 ^a	0.500 ^c	2.100 ^b	0.483 ^c

AZOMITE® IN LAYERS (NOVOGEN WHITES & HYLINE BROWNS) (0-112 DAYS)

AHPharma, Inc. - 2015

PARAMETER	WHITE EGGS			BROWN EGGS		
	Group 1	Group 2	Group 3	Group 1	Group 2	Group 3
AZOMITE® %	0	0.15%	0.30%	0	0.25%	0.25%, 1st 12 weeks
Peak Production %	93.02% ^b	95.48% ^a	97.94% ^a	91.0% ^b	95.0 ^a	95.0 ^a
Egg Weight, gr/egg, 12-16 weeks	59.32 ^b	60.76 ^{ab}	62.24 ^a	60.38 ^b	64.81 ^a	64.19 ^{ab}
Shell Weight, (gr) at 12 weeks	6.843 ^a	6.840 ^a	6.763 ^a	6.631 ^b	6.826 ^a	6.855 ^a
Shell Thickness, mm, 16 weeks	0.346 ^a	0.347 ^a	0.344 ^a	0.322 ^b	0.348 ^a	0.348 ^a
Kg Feed/dozen eggs	1.73 ^b	1.67 ^{ab}	1.64 ^a	1.80 ^b	1.75 ^a	1.73 ^a
Feed Consumed gr/bird/day	130.94 ^a	129.1 ^a	128.38 ^a	123.38 ^a	125.37 ^a	123.39 ^a
Dozen Eggs/Metric Ton of Feed	578.7	599.5	608.3	—	—	—
Egg Increase	—	+250 eggs/ton	+355 eggs/ton	—	+250 eggs/ton	+355 eggs/ton

Each test included 135 pullets in 3 groups of 15 pens per group (3 hens/pen), and were fed test feeds for 16 weeks (white layers) and 24 weeks (brown layers). Peak egg production was improved for both groups, and was reached 7-10 days sooner than the control birds. Average egg production was improved by 3% when fed AZOMITE®-included diets. Egg weights of both white and brown eggs were improved by 4% and 7% respectively.

BROILER CHICKEN SCIENTIFIC TESTS (META-STATISTICAL ANALYSIS OF MULTIPLE STUDIES - DOSAGE RANGE: 0.25%-1.0%)

PARAMETER	No AZOMITE®	AZOMITE®	p Value	No. Tests
Weight (kg)	2.189 ^b	2.215 ^a	<0.001	26
FCR	1.964 ^b	1.913 ^a	0.002	26
Mortality (%)	9.61 ^b	7.62 ^a	0.014	26
Dry Carcass (%)	66.99 ^b	67.29 ^a	0.011	12
Breast (% of Carcass)	19.59 ^b	20.21 ^a	<0.001	12