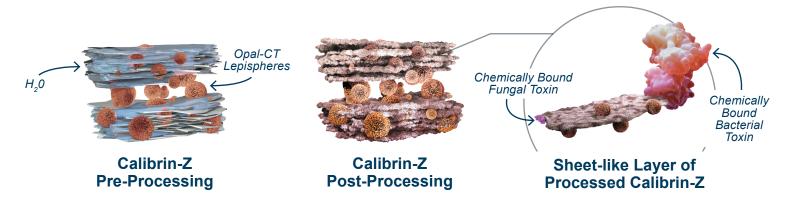


Structure and Processing

Calibrin-Z features naturally occurring phyllosilicate layers with opal-CT lepispheres that, together with our proprietary thermal-processing method, promote the binding of multiple biotoxins.



Adsorption that Matters

Independent laboratories have verified that Calibrin-Z effectively binds mycotoxins and bacterial exotoxins and endotoxins in vitro.

Polar Mycotoxins¹	Nonpolar Mycotoxins¹	Clostridium perfringens Toxins²	Escherichia coli Exotoxins² and Endotoxin³	Clostridioides difficile Toxins ²	Vibrio parahaemolyticus Toxins⁴
Aflatoxin	Zearalenone	Alpha-toxin	Heat-labile toxin	Toxin A	PirA
Ergotamine	Fumonisin	NetB toxin	Shiga-like toxin	Toxin B	PirB
Ergovaline	Ochratoxin		LPS		
Cyclopiazonic acid	T-2 toxin				

Sources: ¹Trilogy Analytical Laboratory, USA; ²USDA, Beltsville, MD; ³Gilbraltar Laboratories, Fairfield, NJ; ⁴National Cheng Kung University, Taiwan.

Superior Gain and Efficiency in Mycotoxin-Challenged Broilers

Two broiler challenge studies were conducted evaluating the ability of Calibrin-Z versus competitor toxin binders containing various additional formulated additives to reduce the negative effects of both aflatoxin and fumonisin.

FEED CONVERSION RATIO DAYS 0 TO 21

University of Missouri, Columbia, USA
(144 total broilers)
1 ppm AFL + 45 ppm FUM

1.37

1.31

1.33

1.35

Control

Challenged Control

Challenged Control

Challenged Control

Challenged Control

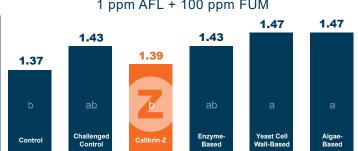
Calibrin-Z

Enzyme-Based

Peast Cell Wall-Based

Algae-Based

SAMITEC, Santa Maria, Brazil (540 total broilers) 1 ppm AFL + 100 ppm FUM



Data from these studies indicates that including Calibrin-Z in a mycotoxin-contaminated diet, kept broiler feed conversion ratios equivalent to the unchallenged control group.

WEIGHT GAIN (G) DAYS 0 TO 21

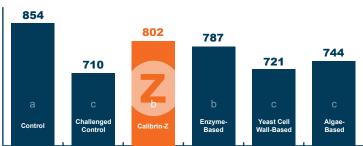
University of Missouri, Columbia, USA (144 total broilers)

1 ppm AFL + 45 ppm FUM

7722
7729
700
Control
Challenged Control
Challenged

SAMITEC, Santa Maria, Brazil (540 total broilers)

1 ppm AFL + 100 ppm FUM



Data from these studies indicates that including Calibrin-Z mitigated reduced weight gain in broilers fed a mycotoxin-contaminated diet. Broilers fed Calibrin-Z performed better than those fed other commercially available products.



Use alone or with other Amlan products in synergistic combinations for optimal health and performance results.



