



Removing antibiotics from the food chain

Improving productivity

Harnessing algae & antimicrobial enzymes

Our mission: the complete removal of all antibiotics in animal feed

Why? because animals, not humans, account for the majority of all antibiotic consumption annually.

We have brought together leading biotech scientists and agricultural industry veterans.

Our first product, AXITAN FORC3®, harnesses algae and antimicrobial enzymes – not antibiotics – to tackle the chronic issue of necrotic enteritis within the poultry industry.

Our goal? Not just to improve livestock performance and farming economics but ultimately the food security of each country.

We believe FORC3® is delivering on that mission.

AMR The Silent Killer

Antimicrobial resistance (AMR) has been identified by WHO as “one of the top 10 global public health threats acing humanity”.

“Misuse and overuse of antimicrobials” (ie. antibiotics) are universally recognised as “the main drivers in the development of drug-resistant pathogens”.

Tackling AMR now forms a central pillar to WHO’s, and governments’ internationally, One Health strategy¹.

Axitan is proud to be engaged in helping face down the AMR challenge.

Test of FORC3® formulation in the field

Parameter	Control	FORC3®
Livability (D40)	0.9954	1.0324
Average bird weight (lb) (D40)	2.245	2.331
Adj FCR (D40)	1.60	1.56
0-28 Day Water consumption (L)	114,085	107,843

FORC3® Field Study Design

- 40-day study carried out by a US feed mill on a 60,000 bird NAE farm
- 30,000 birds placed in each group (control group and FORC3® treated)
- FORC3® mixed in feed from D0 to D28
- Birds vaccinated against coccidiosis

FORC3® formulation in challenge study

Objective: Infect birds with NE to see how many can be saved using FORC3® compared to an antibiotic.

Treatment	NE Mortality (%)	NE Mortality Reduction (%)
Untreated Performance	14.10	-
Unchallenged Performance	0.40	97.1%
Antibiotic Control	1.80	87.2%
FORC3® Formulation	1.10	92.2%

As good as antibiotic*

* Within the context of this study only

World Class Microalgae GeneTech Team



Dr Kane Miller
CEO &
Board member



Dr Weilluo Lee
COO



Dr Francisco Navarro
CSO



Professor Saul Purton
Scientific advisor

Proven Ag Industry Board & Advisors

With credentialed track records of developing, advising & exiting \$1b+ businesses

- Alan Temple Board member
- Mark Deleo Board member
- Clinton H Severson Business advisor
- Dr Stewart J Ritchie Industry advisor

AXITAN FORC3®

The Ultimate Pathogen Buster



Primary Poultry Pathogen eliminated

Clostridium perfringens – the cause of necrotic enteritis.



No Antibiotics

...and no need for supplemental

- ionophores
- pro/pre/postbiotics
- “essential” oils

The elimination *Clostridium perfringens* - and the additional algal nutrients in FORC3® - stimulate improved growth.



Immediate Financial Return*

- over 6x ROI generated using real world data from NAE farm
- gains of 4-6 cents per bird



Improved Flock Performance*

- quicker weight gain
- greater weight gain
- reduced mortality
- improved FCR (Feed conversion Ratio)
- less water consumption



FDA GRAS Affirmed

In October 2022, we were delighted to announce the algal dried biomass in FORC3® was “Generally Recognised as Safe” by the independent GRAS Panel of experts.

How it works

Axitan’s antimicrobial enzymes (AE) are naturally occurring enzymes that have the ability to target and destroy the cell walls of harmful bacteria, killing the cells.

Our scientists have successfully incorporated AE’s into algae to create a dried feed additive that specifically targets one of the major poultry pathogens – *Clostridium perfringens* (which causes necrotic enteritis) – as well as associated harmful bacteria. We call it FORC3®.

* Data presented was calculated based on performance data provided to Axitan by the collaborating party. Results may vary at different operation locations. The ROI was calculated using Axitan’s internal model which has various assumptions associated with it.

US/UK Know-how – US Production



Our UK **R&D centre** is located in the heart of the UK’s biotech “Golden Triangle” between Cambridge, London and Oxford - Stevenage.



Our US **production centre** is headquartered in the heart of the US poultry industry, Comer, Georgia.

Be Part of the New Wave

Join the FORC3® program by contacting us at info@axitan.com

Web
axitan.com

Email
info@axitan.com

Tel
+1 (706)783-8125

A supporter of the CDC & WHO One Health campaign, NAE labelling, and the global fight against antimicrobial resistance.