

ChickGuardXP

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The Gut Health Protector



DEVENISH
NUTRITION

The agri-technology company



ChickGuardXP

ChickGuardXP™ is a natural, antibiotic free poultry feed preparation which contains fatty acids, selected plant oils, herbs and spice extracts. **ChickGuardXP™** is a proven product, developed from an extensive series of trials in poultry. **ChickGuardXP™** inhibits the proliferation of pathogenic bacteria thereby helping to support a healthier Gut environment. The overall result is an improvement in bird performance.

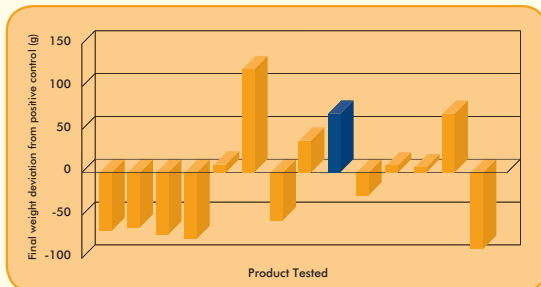
Features associated with ChickGuardXP™:

- Natural
- Antibiotic free
- Tailored fatty acid supply
- Targeted release in the small intestine
- Trials show ability to assist in control of adverse intestinal challenges
- Promotes healthy gut wall development
- Maximises digestion and absorption of nutrients

TRIAL 1. COMMERCIAL TRIAL SERIES

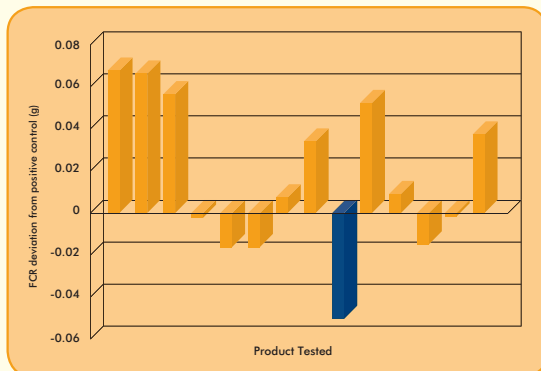
(In conjunction with Queens University Belfast 2005-2008)

A series of 14 trials were carried out between 2005-2008 in conjunction with Queens University Belfast. Each trial had a minimum of 250,000 birds. A total of 14 feed preparations were tested (one per trial), including ChickGuardXP™ and performance of the preparation was compared to performance of birds fed a commercial control diet. Results for final body weight, Feed Conversion Ratio (FCR) (kg feed/kg gain) and European Production Efficiency Factor (EPEF) were expressed as the amount of deviation from control.



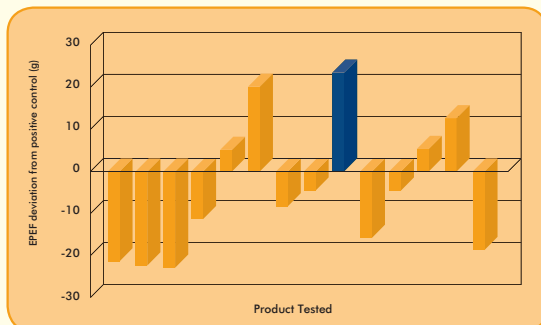
FINAL WEIGHT DEVIATION

- 7 out of 14 products gave improvements in final bodyweight.
- **ChickGuardXP™** showed the second greatest improvement.



FCR DEVIATION

- 5 of the 14 products showed improvement in FCR.
- **ChickGuardXP™** showed the greatest improvement in FCR.



EPEF DEVIATION

- **ChickGuardXP™** demonstrated the greatest improvement in EPEF.

TRIAL 2. COMMERCIAL FEED TRIAL

(In conjunction with Queens University Belfast 2005-2008)

A trial was conducted to study the effect of two dietary treatments on the performance of birds reared under commercial conditions. The raw material composition of the two dietary treatments was the same except for the feed preparation being tested. The control diet contained a commercial feed preparation commonly used in the industry at the time of the trial while the test diet contained **ChickGuardXP™** which was fed from day old until depletion at 40 days. There were 5 replicate houses per treatment each with 50,000 per house. All birds were as-hatched.

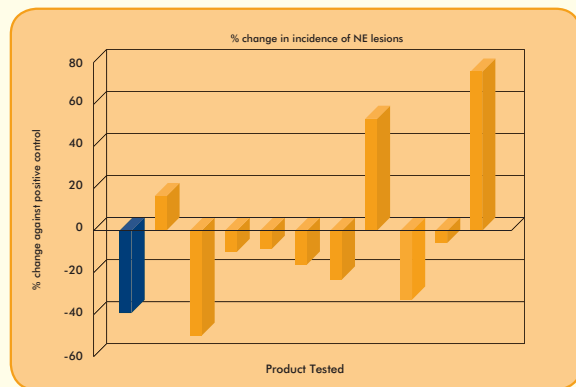
	Age (Days)	Final Body Weight (g)	FCR (Feed:Gain)	EPEF
Control	40	1845	1.798	251.7
(Test) ChickGuardXP™	40	2049	1.818	265.2
		**	NS	NS

- A significant improvement in final body weight at 40 days of age for birds fed **ChickGuardXP™** ($P < 0.01$).
- No significant difference in Feed Conversion Ratio or EPEF.

TRIAL 3. BIOLOGICAL MODEL STUDIES

(Veterinary Sciences Division, Belfast 2005-2008)

Utilising a unique biological disease challenge model for necrotic enteritis (NE), a series of trials were conducted to evaluate the effect of commercial feed preparations on the incidence of gut lesions. Of the feed preparations studied in Trial 1, eleven, including ChickGuardXP™ were individually tested through the model. Positive control birds were challenged with NE but their feed did not contain any protective feed preparations.



- Lower number of lesions in the gut.

ADDITIONAL INFORMATION

Feeding Instructions

Recommended to be used as a complimentary feedstuff for use in poultry feeds:

Starter feeds	1.5 kg /T complete feed
Grower feeds	1.0 kg /T complete feed
Finisher feeds	0.5 kg /T complete feed
Withdrawal feeds	0.25 kg /T complete feed

Physical form

White or off-white coloured, coated product.

Packaging

25kg bags. White 3-ply block bottom bags.

Storage instructions

Store in a cool, dry place and use within 12 months of manufacture..

MISSION STATEMENT

'We create value by developing and supplying quality nutritional products and solutions, new technologies and distinctive customer support to the Agri-Food sector in our chosen market

For further details on **ChickGuardXP™** Please Contact:

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INNOVATIVE INTERNATIONAL INDEPENDENT INTEGRITY