



BIOCOMPLEX PLUS IMPROVES BIRD PERFORMANCE,
REDUCING AMMONIA & IMPROVING BIRD HEALTH



BIOCOMPLEX PLUS FOR POULTRY

FEED INGREDIENT WITH PRE-BIOTIC EFFECT

UFAS LICENSED NATURAL ORGANIC FEED INGREDIENT

INCREASED WEIGHT GAIN

IMPROVED FEED CONVERSION RATIO

IMPROVED BIRD HEALTH

REDUCED MORTALITY AND FACTORY REJECTS

REDUCED LEVELS OF AMMONIA, PODODERMATITIS & HOCK BURN

HELPS REDUCE NEED FOR ANTIBIOTICS





BIOCOMPLEX PLUS

WHAT IS IT?

USAGE & APPLICATION

BioComplex Plus is administered in a granulate form into either compound diets or home mixed rations.

- **A 4% average increase in daily live weight gain is achieved in high performing crops.**
- **Crop cycle can be reduced providing savings in feed and increased crop income. Helps the birds fight infection from pathogens and toxins.**
- **Lower ammonia emissions assist intensive agriculture to meet the demands of the EA, NRW and SEPA. It also helps farms comply with targets set out in the government's Clean Air Strategy 2019.**

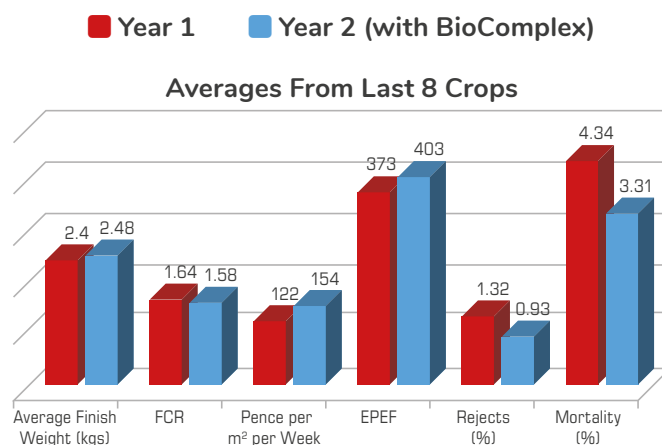
BIOCOMPLEX PLUS – IMPROVING PROFITABILITY

BioComplex Plus is derived from marine algae processed in a unique way. When administered to birds in their feed as a UFAS approved feed ingredient, it improves microbial health within the gut leading to a healthier bird. This both increases bird weight and FCR. Additionally it reduces ammonia in the faeces. This in turn improves the environment within the house and the quality of the litter, increasing its value when spread to land, or when used in anaerobic digestion.

- **Increase in bird weight, better feed conversion rates and reduced cycle times through poultry housing.**
- **BioComplex Plus acts by greatly increasing the number and diversity of organisms in the lower gut. As well as stabilising the gut, making poultry less susceptible to enteric disorders.**
- **Significantly lower levels of hock burn and pododermatitis within crops where symptoms are evident.**
- **Reduced levels of ammonia within the house, improving the poultry house environment, the wider environment and general bird health.**

**IMPROVED BIRD HEALTH
EQUALS HIGHER PROFIT**

COMPARISON OF A FARM TREATED WITH EKOGEA'S BIOCOMPLEX OVER 8 CROPS COMPARED TO PREVIOUS 12 MONTH PERIOD



For this 170,000 bird farm, the improvement in pence per m² per week gives a net benefit of approximately £11,000 per crop. This equates to a return of £5 for every £1 invested.



BIOCOMPLEX PLUS

HOW DOES IT WORK?

an enhanced prebiotic effect compared with any other processing methods.

Diverse microbial populations foster improved health in animals. Microbial diversity is key to efficient feed conversion and nutrient assimilation: beneficial microbes naturally outcompete pathogens, promoting 'competitive exclusion'.

HOW IT WORKS

BioComplex Plus feeds and protects microbes. It is rich in algal oligosaccharides, a unique food for microbes. BioComplex Plus is also rich in polyuronic acid which provides ion exchange capacity, a mechanism which buffers unwanted toxins whilst supporting microbial health, diversity and proliferation.

BioComplex Plus is different to other algal products in that our algae extraction process uses no sulphated polyuronic acid, resulting in

Quote - South West Farmer

"Your product is putting these birds in a position to take advantage of every other positive opportunity they have to grow, convert, live and be A grade."

Quote - South West Broiler Farmer

"Rare to come on a product which gives such overall impressive results. Wish I'd used it for the last 18 months."

WHAT IS IT?

Produced from 100% marine algae

An organic feed ingredient

Has a huge capacity for ion exchange

EU approved for use as an organic feed ingredient

Natural effective pre-biotic additive

Add to water at dilution rate of 1:10,000

Long shelf life and easy to store and handle on farm

HOW DOES IT WORK?

Provides unique nutrients for gut bacteria

Buffers toxins and improves bird health and resilience

Increases diversity of gut flora, assisting good bacteria to outcompete pathogens

Reduces ammonia levels in faeces providing a better environment for the birds

Helps prevent leaky gut

WHAT ARE THE BENEFITS?

Increased final weight

Reduced emissions of ammonia and hydrogen sulphide both in housing and when litter is spread to land

Improved FCR

Reduced antibiotic usage

Reduced mortality and factory rejects

Lower level of hock burn and pododermatitis

Zero withdrawal period



PODODERMATITIS / HOCK BURN

Pododermatitis and hockburn are commonly monitored at processing as an indication of bird 'welfare status'. Some lesions are superficial, whereas others progress and affect the health and well-being of the bird. BioComplex Plus acts to reduce the severity of the problem by reducing the ammonia in the litter. Healthier birds increase crop yield providing greater income for the farmer.

AMMONIA REDUCTION

Ammonia affects general bird health. Reducing its concentration within the houses helps improve bird health and reduce the requirement for ventilation and associated energy costs. It also helps Farms comply with the Government's Clean Air Strategy 2019.

WEIGHT GAIN

Expect a significant increase in live bird weight when using BioComplex Plus. Typically high yielding crops are increased by 4% in weight over identical flocks and houses.

THE COMMERCIAL RATIONALE

Taking all benefits of BioComplex Plus into account, including, improved weight gain, lower mortality and factory rejects, lower FCR and improved general health, farms can expect to double their investment on each crop treated.

Ref: POULTRY-PLUS-02-2022

