



CLOSTAT®

An active microbial selected from a unique strain of *Bacillus subtilis* PB6. This active microbial was isolated from the intestinal tract of healthy chickens surviving a necrotic enteritis outbreak.

CLOSTAT produces a **specific biocide** in the gastro-intestinal tract that has inhibitory activity against *Clostridium perfringens*.

Features

- Fully stable in feed and premixes
- Heat stable upon pelleting
- Compatible with all organic acids
- Compatible with all coccidiostats

Benefits

- Production of distinctive biocides with specific activity against *Clostridium perfringens*
- Prevention of necrotic enteritis, bacterial enteritis or dysbacteriosis, and maintenance of a balanced GI tract
- Optimal gut integrity facilitates nutrient absorption
- Allows flock production in an antibiotic free environment
- Reduction in medication cost due to preventive gut health management
- Improves profit margin through reduced mortalities, improved litter quality and performance, and less rejection at slaughterhouse

Impact of disrupted intestinal health

A balanced gut health is crucial for optimal animal performance. A disrupted intestine will quickly lead to dysbacteriosis which is a widespread problem in the poultry industry. Surveys indicate that 75 – 85% of all flocks worldwide suffer from sub-clinical necrotic enteritis¹. It is known as a serious profit killer.



¹ Sluis W Van Der, World Poultry vol 26, 2005

CLOSTAT favors antibiotic free programs

Reduction of antibiotic use in poultry production has been proven to be successful in several large field trials.

Table 1: Broiler performance parameters when using CLOSTAT vs antibiotics in drinking water

	Regular production	CLOSTAT	Difference
Number of broilers	264398	360276	
FCR (feed kg : gain kg)	1.81	1.75	- 0.06
Average age in days to market	38	37	- 1
Average slaughter weight (kg)	1.964	1.960	- 0.004
Results in Euro/m ²	7.8	8.3	+ 0.5
Medication cost/bird (Euro)	0.024	0.012	- 0.012

TL-11-00148

Table 2: Performance data from 38 trials in 14 countries, involving more than 4,5 million broilers

	Regular production	CLOSTAT	Difference
Number of broilers (Million)	2.3	2.3	
Average mortality (%)	4.50% ^a	3.95% ^b	
Daily feed intake (g)	97.4	98.5	+ 1.1
Live weight	2068 ^a	2133 ^b	+ 65
Daily growth (g)	52.1 ^a	53.7 ^b	+ 1.6
FCR* (feed kg : gain kg)	1.844 ^a	1.780 ^b	- 0.064
EEF (European Efficiency Factor)	279 ^a	293 ^b	+ 14

* FCR adjusted to body weight

^{a, b} values with different superscripts differ statistically

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Economical benefits from all trials:

- Medication cost in average is 50 % lower when using CLOSTAT instead of antibiotics
- Data obtained from slaughterhouses indicate that CLOSTAT results in 25% less rejections and 25% less depreciation, due to reduced hock burns and breast blisters
- Statistical analysis of the data from these broad set of field trials show that most improvements are significant

Guaranteed Quality

Through rigorous validated quality control tests, Kemin verifies the number of live spores from each batch of product produced under strict manufacturing constraints.



INSPIRED MOLECULAR SOLUTIONS™

