SILA®
ADVANCED NUTRITION

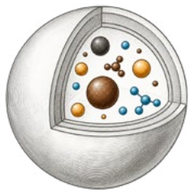
NOVAMONT
A Versalis Company



nutrilox®

ADVANCED FEED SOLUTIONS
FOR LIVESTOCK

NOVEL FEED ADDITIVES FOR BROILER PERFORMANCE



NUTRILOX® is an innovative product range developed through the partnership between SILA, a specialist in industrial microencapsulation processes for animal nutrition, and Novamont, an international player in the field of bio-based chemistry. The range combines **short- and medium-chain fatty acids and essential oils** with SILA's microencapsulation technology. The fatty acids are produced at Novamont's biorefinery in Porto Torres (SS, Italy), using proprietary technology that harnesses the molecular complexity of plant-based raw materials. SILA's specific coatings protect the selected ingredients, enhancing their stability and bioavailability while enabling targeted release. This approach supports more precise and sustainable poultry nutrition, aiming to **boost production performance while improving animal health**.

PROTECTING WHAT MATTERS. NOURISHING WHAT'S NEXT.

NUTRILOX® products for poultry are validated through in vivo studies conducted in collaboration with a renowned research and innovation centre.

PHASES → STARTER: D0-14 | GROWER: D15-24 | FINISHER: D25-35



nutrilox® PERFORMANCE

Solution to Boost Early Growth, Optimize FCR, and Stabilize Flock Health
Inclusion rate: 2 kg/t (Low) & 3 kg/t (High) of complete feed

nutrilox® DEFENCE

Solution for Gut Barrier Integrity & Coccidiosis Control
Inclusion rate: 1 kg/t (Low) & 2 kg/t (High) of complete feed

CONTROLLED RESEARCH

(1,080 Ross 308 Broilers – Floor Pen Trial, 35 Days)



Flock Mortality Slashed:
Significantly reduced losses to **0.9%** (**High**) vs. **4.6% in Control**.
Superior Starter Phase Growth (D0-14):
DWG raised numerically by +**2.47%** (**Low**) and statistically by +**3.93%** (**High**).
Early Feed Efficiency (D0-14):
Starter FCR optimized to **1.101** (**-1.61%, Low**) and **1.097** (**-1.97%, High**) vs. 1.119 in Control.
Higher EPEF Index:
Achieved **544 points** (+**10 pts, Low**) and **554 points** (+**20 pts, High**) vs. 534 points in Control.
Maximized Economic Return (D0-35):
Total gross profit including mortality data rose to **€2.062/bird** (+ **€0.056, Low**) and **€2.099/bird** (+ **€0.093, High**). An economic advantage driven by the combination of accelerated early growth and flock health stabilization.



Starter & Grower Daily Gain (D0-24):
DWG increased by +**1.92%** in the starter phase and by +**0.83%** in the grower phase (**Low**).
Starter FCR Improvement:
Early feed conversion improved to **1.103** (- **1.43%, Low**) and **1.104** (-**1.34%, High**) vs. 1.119 in Control.
Reduced Gut Dysbiosis:
Dysbiosis score lowered to **0.319** (-**10%, Low**) and **0.236** (-**33%, High**) vs. 0.354 in Control.
Zero Necrotic Enteritis and No *Eimeria maxima*:
No lesions for *Clostridium perfringens* confirmed at necropsy (vs. 0.083 Control).
Microbiome Balance (Cloacal Swabs):
Significant **reduction in Enterobacteriaceae ratio** between D14 and D35, indicating a reduced dysbiosis and improved microbial balance (**High**).

COMMERCIAL FARM

(1,140 Ross 308 Broilers – Commercial Pressure Trial, 35 Days)

Final Body Weight Gain:
+**3.4%** (**both dosages**) corresponding to +**76 g** at Day 35.
Finisher Phase Growth (D25-35):
DWG boosted by +**6.07%** (**Low**) and +**7.02%** (**High**), with an average +5.4 g/day.
Overall Daily Growth (D0-35):
DWG increased by +**3.24%** (**Low**) and +**3.21%** (**High**), with an average +2.0 g/day.
Starter & Grower FCR Optimization (D0-24):
FCR significantly improved both in the starter and the grower phase (**-2.51% & -2.88%, Low; -1.47% & -1.96%, High**), corresponding to 1.125 & 1.384, Low; 1.137 & 1.397, High; 1.154 & 1.425, Control.

Starter & Finisher Daily Growth:
DWG increased by +**1.58%** (D0-14, +0.6 g/d, **High**) and +**4.31%** (D25-35, +3.6 g/d, **Low**).
Grower FCR Optimization (D15-24):
FCR reduced by -**1.61%** (**1.402, Low**) and -**5.05%** (**1.353**, **High**) vs. Control (1.425).
Targeted Eimeria Control (D30):
Highly significant reduction in oocyst excretion for *E. acervulina*, *E. tenella*, and Total Load, across inclusion rates.

PATENT PENDING

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For additional information, ask our technical experts.

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