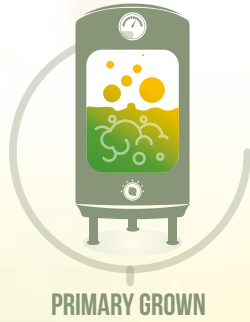


AgrimOs

The consistent and guaranteed premium yeast cell wall



EXPERIENCE RELIABILITY!



AGRIMOS: a premium yeast cell wall

AGRIMOS contains mannan-oligosaccharides (MOS) and β -Glucans from specific primary grown *Saccharomyces cerevisiae* yeast strains.



Lallemand masters the whole AGRIMOS production process to ensure premium quality:

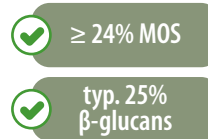


DID YOU KNOW?

The yeast strain, the fermentation and post-fermentation processes influence the purity, composition and structure of MOS and β -Glucans, therefore, the efficiency of yeast cell wall products.

AGRIMOS: high, consistent and guaranteed levels of active components

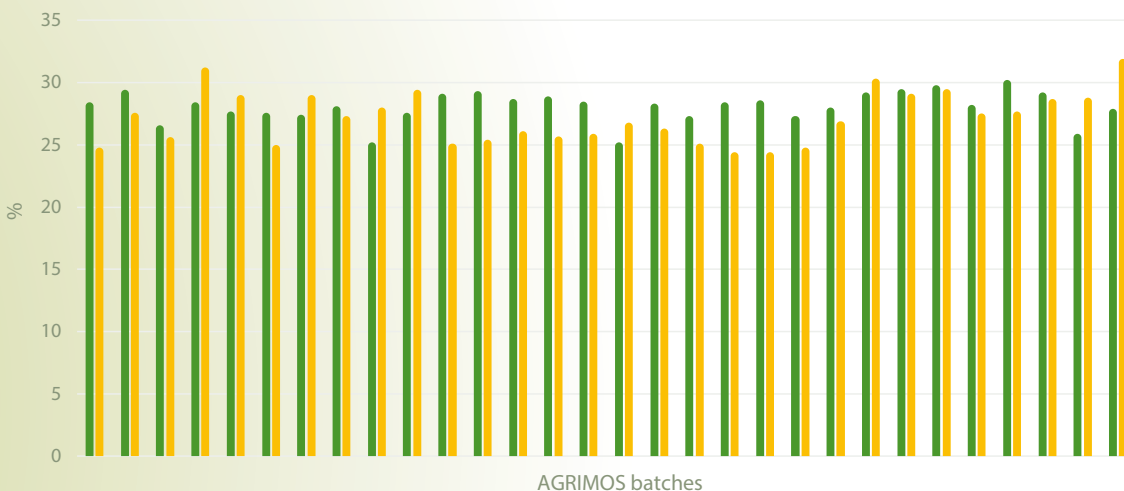
Lallemand guarantees both MOS and β -Glucans levels for each batch released with a certificate of analysis (CoA).



CERTIFICATE OF ANALYSIS				
AgrimOs				
Lot Number: X0032B		Manufacturing Date: 19/03/2022		
Expiration Date: 24 months from production date				
Chemical & Physical Analysis				
Designation	Specification	Value	Unit	Reference
Moisture (%)	≤ 8.0	6.50	%	EN 12185
Crude Protein (%)	≥ 10.0	10.5	%	EN 12185
Crude Fat (%)	≤ 2.0	1.8	%	EN 12185
Crude Ash (%)	≤ 5.0	4.8	%	EN 12185
Microbiological Analysis				
Designation	Specification	Value	Unit	Reference
Total Viable Count (TVC)	≤ 10 ⁶	5.0	CFU/g	EN 12185
Yeast and Fungi (Y&F)	≤ 10 ⁵	5.0	CFU/g	EN 12185
Enterobacteriaceae	≤ 10 ⁴	5.0	CFU/g	EN 12185
Staphylococcus	≤ 10 ⁴	5.0	CFU/g	EN 12185
Salmonella	≤ 10 ⁰	0	CFU/g	EN 12185
Shigella	≤ 10 ⁰	0	CFU/g	EN 12185
Sensory Analysis				
Color (appearance)		White powder		

AGRIMOS: MOS and β -glucans content

■ MOS
■ β -glucans



2021 AGRIMOS batches average analysis results:

○ MOS: 28.1%

○ β -glucans: 27.2%

AGRIMOS: a well-documented efficacy

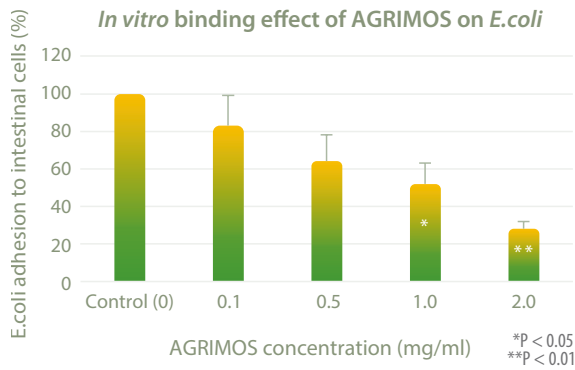


AGRIMOS contains mannan-oligosaccharides (MOS) and β -Glucans from specific primary grown *Saccharomyces cerevisiae* yeast strains.

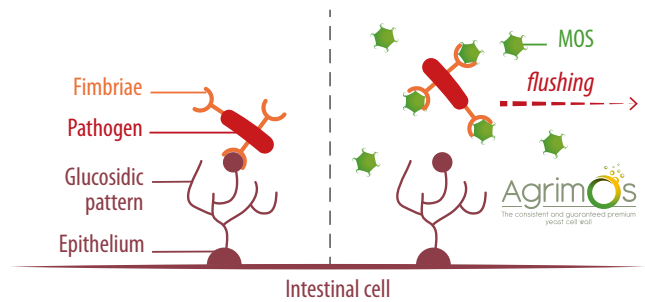


Positive effect on microflora balance and intestinal integrity

Undesirable bacteria binding effect



AGRIMOS has demonstrated a strong potential to bind undesirable bacteria.



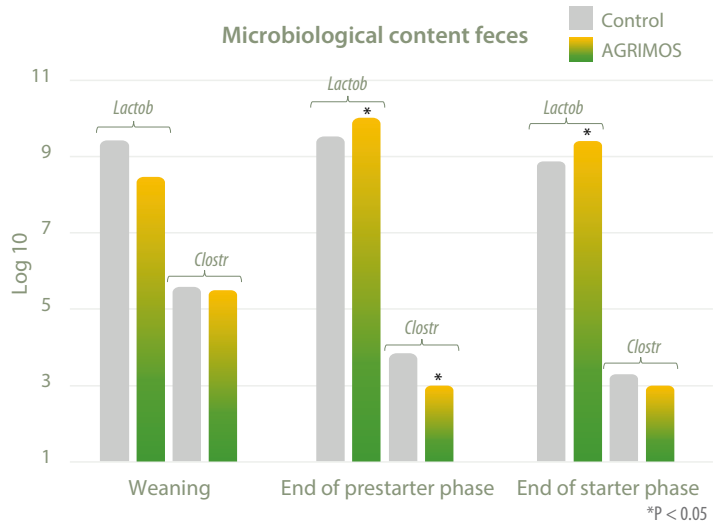
Microbial balance



Milan University, Italy
35-day trial
48 post-weaned piglets
Trial summary available upon request

AGRIMOS significantly increases the development of *Lactobacillus* while reducing the *Clostridium* fecal content, contributing to a well-balanced microflora.

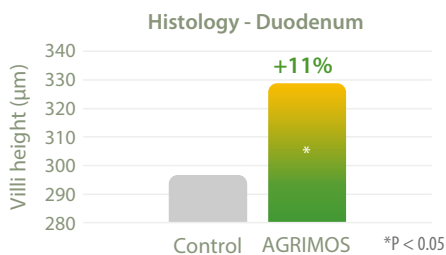
Lactobacillus = beneficial bacteria
Clostridium = undesirable bacteria



Intestinal morphology



Milan University, Italy
35-day trial
48 post-weaned piglets
Trial summary available upon request



Plymouth University, United Kingdom
10-week trial (high soybean meal diet)
European seabass (15g; 25 fish / tank; n = 3)
Rawling et al. 2019

Morphology of distal intestine

	Control	AGRIMOS	Deviation
Perimeter ratio	3.2 ^a	4.3 ^b	+34%
Muscosal fold lenght (µm)	318 ^a	391 ^b	+23%

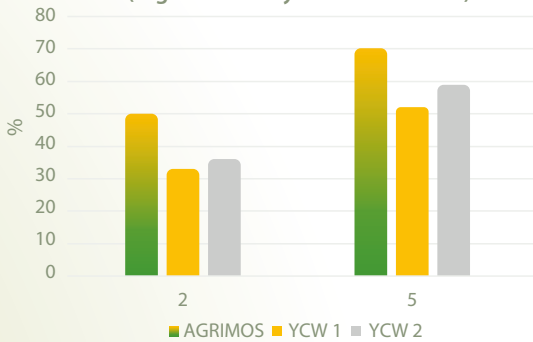
a; b: P < 0.05

AGRIMOS has the potential to improve the intestinal morphology, leading to a higher surface area for greater nutrient absorption.

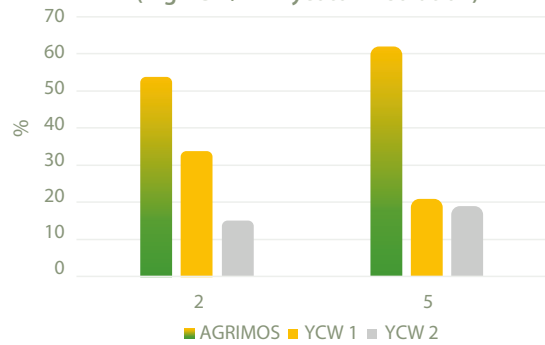
Mycotoxin binding effects



In vitro comparison at pH 3 of different YCWs on Zearalenone adsorption at different inclusion rates (mg YCW/ml mycotoxin solution)

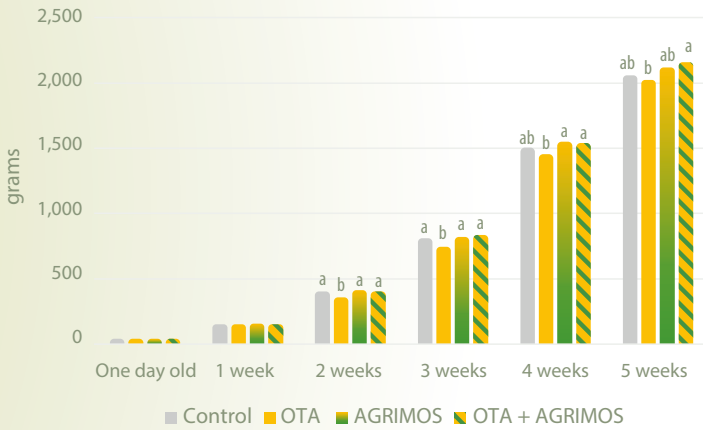


In vitro comparison at pH 3 of different YCWs on Fumonisin B1 adsorption at different inclusion rates (mg YCW/ml mycotoxin solution)



AGRIMOS has shown **positive results on Zearalenone and Fumonisin B1 adsorption.**

Body weight



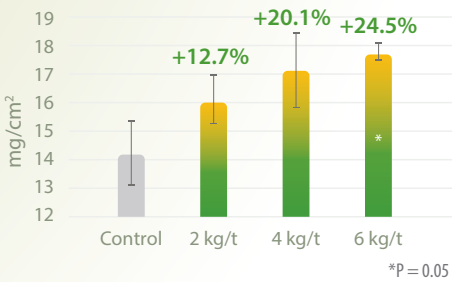
Cairo University, Egypt
5-week trial
360 day-old broilers
Ochratoxin A challenge: 50µg/kg during first 3 weeks of age
Trial summary available upon request

AGRIMOS was an **efficient solution to mitigate the negative effects of Ochratoxin A (OTA) on growth performance.**

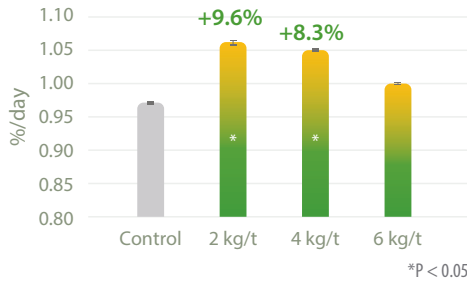
Supports skin protection and animal performance



Crude skin mucus



Specific growth rate



12-week trial
180g seawater Atlantic salmon
7 weeks (14°C, 95% DO)
5 weeks (16-17°C, 55% DO)
Trial summary available upon request
DO = dissolved oxygen

AGRIMOS promoted **skin mucus excretion and growth** as a dose-dependent trade-off.



- Feed ingredient for all animal species
- Can be used in organic production under regulation (EC) No 2018/848
- Compatible and stable with most of feed ingredients
- 25 kg bags or 1,000 kg big bags
- 24-month shelf life

Consult your technical adviser for more information

Not all products are available in all markets nor associated claims allowed in all regions.