



HAPPY INSIDE

WITH ALTERION®



Adisseo probiotic solution for consistent poultry production

When it comes to consistency, nothing delivers like Alterion®. Its innovative formulation ensures a homogeneous mix. Its dual action *Bacillus subtilis* probiotic strain consistently provides good gut balance and growth performance indicators.

Alterion®, makes both poultry and industry professionals Happy Inside.

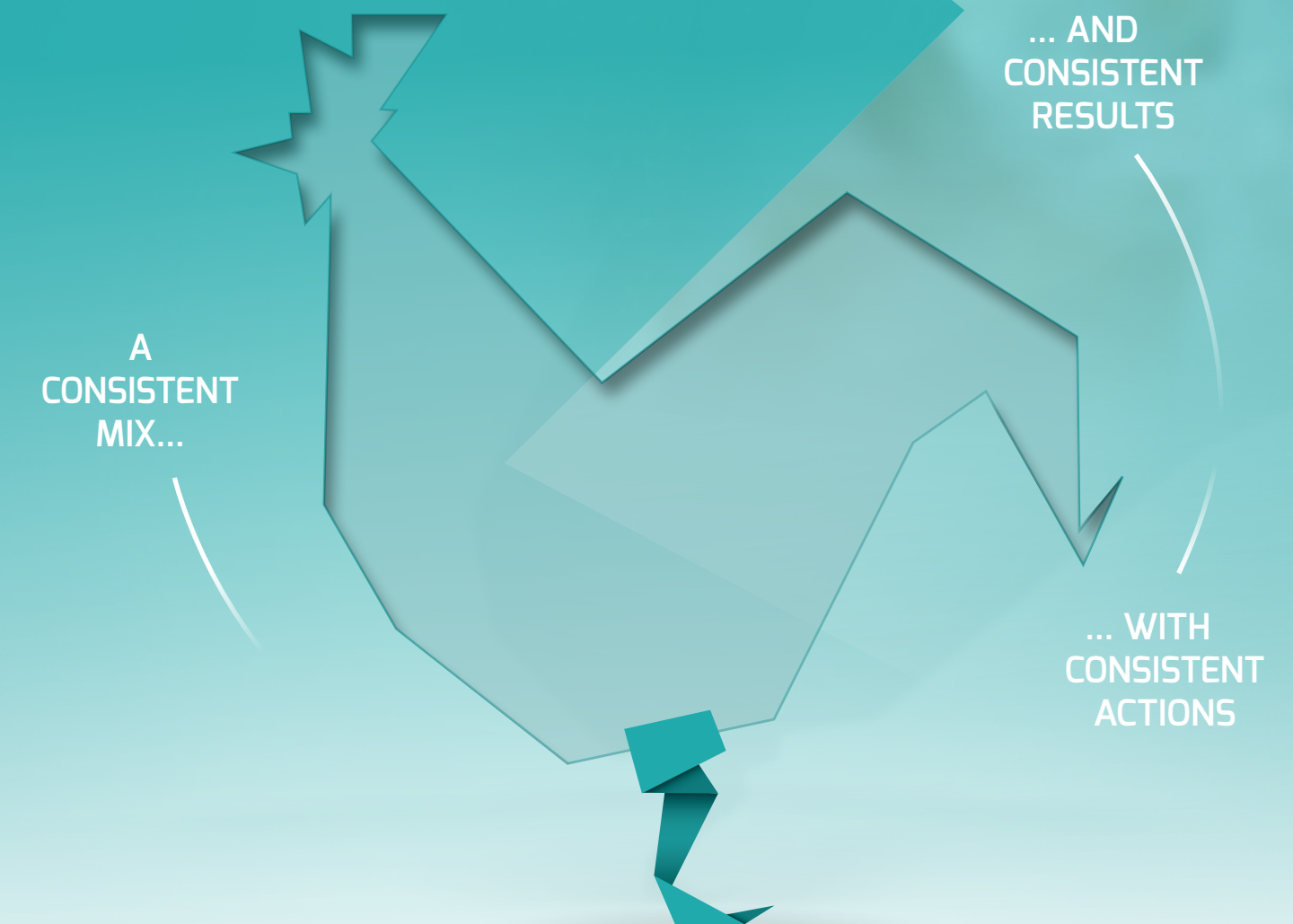


From mix to results

Alterion® delivers consistency thanks to a carefully selected and effective strain with an innovative formulation.



For more information,
contact your sales representative.



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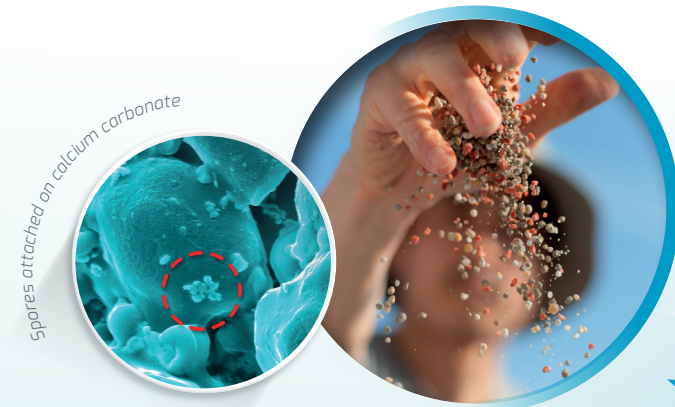
AND YOU, ARE YOU READY TO BE HAPPY INSIDE?

Alterion® is the result of a strong partnership between Adisseo, a leader in animal nutrition and Novozymes, the world's largest provider of microbial technologies.

Launched in 2016, Alterion® consistent features have earned the confidence of industry professionals around the world.



THE CONSISTENT PROBIOTIC



A CONSISTENT MIX...

Ensuring an homogenous blend

Alterion® contains spores of *Bacillus subtilis* DSM29784. The spore form naturally protects the bacilli from pressure, acidity and temperature. This makes Alterion® stable under harsh pelleting and gastric conditions ensuring its efficiency where it matters most: in the animal's gut.

The innovative formulation of *Bacillus subtilis* DSM29784 spores enables an homogeneous distribution of the spores when mixed with a calcium carrier. This ensures low dust, low sedimentation of the spores, no demixing and an homogeneous mix of the active agents in premixes and feed. Every time.



... WITH CONSISTENT ACTIONS

Carefully selected to provide superior safety, stability, effectiveness and function.

- **safety** (no antibiotic resistance genes, non hemolytic),
- **stability** under processing conditions,
- effective **balance** of the **microbial populations** of the gut,
- reinforcement of **intestinal barrier** morphology and function,
- provide **consistent results** *in vivo*.

Bacillus subtilis strain specificity affects performance improvement in broilers. Rhayat 2017, Poultry Science Jacquier 2018, Poultry Science.

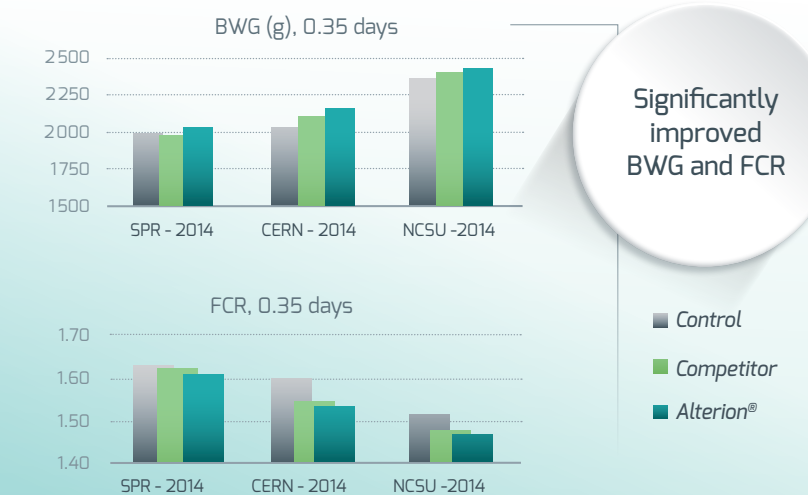


... & CONSISTENT RESULTS

In performance indicators measured in poultry livestock

Thanks to its mode of action and formulation, Alterion® provides significant and consistent improvements in performance indicators measured in poultry livestock. Alterion® also improves parameters of the animal's digestive comfort and well-being.

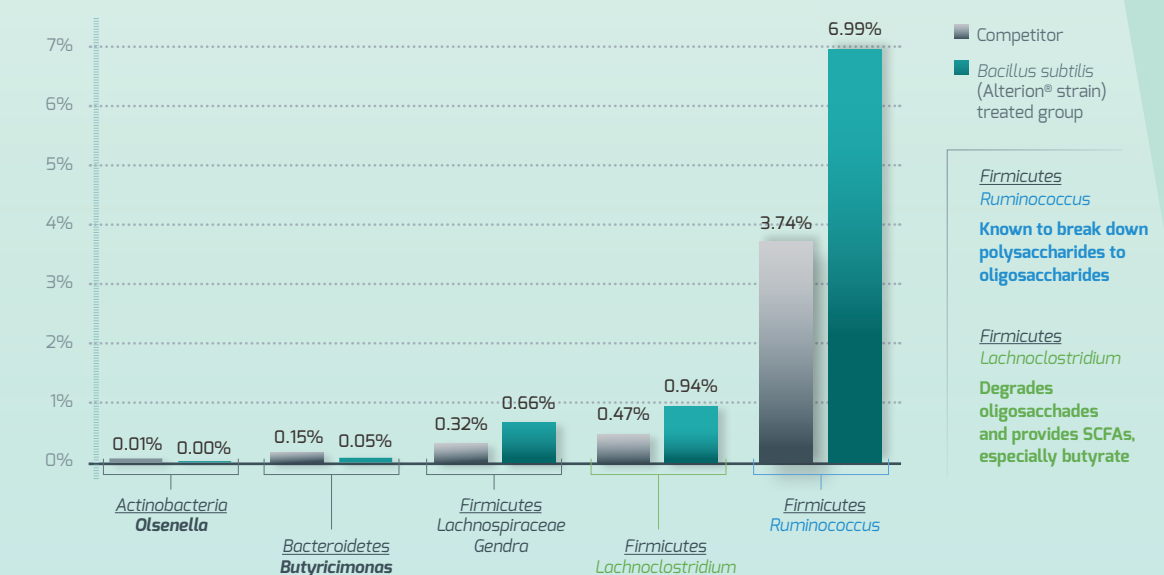
From the feet up: Profits from probiotic, JR Teyssier, E Devillard, All About Feed, feb 2018



Significantly improved BWG and FCR

Strain *Bacillus subtilis* DSM29784

The active agent in Alterion® - strain *Bacillus subtilis* DSM29784 has been carefully selected to address all the characteristics that are critically important for industry professionals.



5 Bacterial groups are significantly different between Control & Alterion® treated groups