

#### For layers and breeders

- **Dosage:** During the second phase of the laying cycle: 1 kg/Mton
- Packaging: Bags of 25 kg
- Storage: Store cool and dry

# The starting point for rearing healthy, productive animals is **safe nutrition**.

Active in over 60 countries worldwide, we produce premixes, concentrates and functional feed ingredients for the animal feed industry.

We strive to constantly innovate, and at the heart of our unique ingredients are our ongoing research, development and testing programmes. We are widely acknowledged as the industry's benchmark for increasing yields and reducing disease naturally.

Through our worldwide reach, constant innovation, thorough testing and proven results, we are proud to say that, today and tomorrow, Nuscience will remain at the heart of feed.





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### Visit us at www.nusciencegroup.com

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KNOWLEDGE PARTNER IN NUTRITION AND HEALTH

## shellbiotic unbreakable



### The importance of **albumen quality**

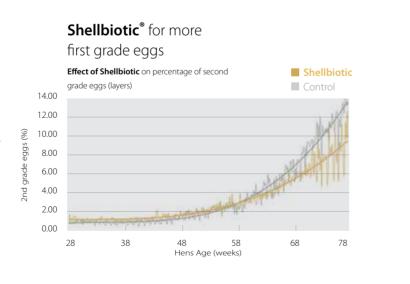
Due to the latest developments in breeding technology both commercial layers as well as breeders have the potential to be kept for longer production cycles.

Therefore egg quality is becoming more and more the decisive parameter for profitability in the poultry industry. Maintaining both external and internal quality will therefore not only be beneficial to the industry in the short term but might also contribute to an improved growth potential.



A lot of knowledge is already present on the importance of albumen quality with regard to the calcification process as well as to the relation with hatchability and the quality of the day old chick. Currently, research is being executed in order to define the exact proteins which are affecting either the albumen quality or the organic matrix of the egg shell.

<b>Better</b> laying persistency	<b>Shellbiotic</b> <sup>®</sup> keeps production high				
With the current genetics of laying hens and breeders good peak productions are achieved. The challenge is to maintain these high productions as long as possible (= increasing laying persistency) for maximising the number of saleable consumption or settable hatching eggs.	Effect of Shellbiotic on egg production		Control	Shellbiotic	
	Before Shellbiotic	Week 22 - 58	249.6	249.5	2 eggs extra
	With Shellbiotic	Week 59 - 85	139.9	141.8	
	Total	Week 22 - 85	389.4	391.4	
	Trial with Lohman Brown laying hens at Provincial Centre for applied poultry research, Geel, Belgium				



#### Better shell quality

The number of saleable/settable eggs is not only determined by egg production but also by egg shell quality.

A decrease of the percentage of second grade eggs results in a higher amount of eggs to be sold/set.

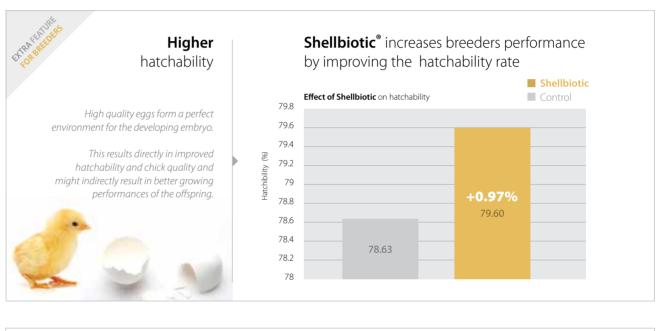
## Reach the summit of quality... with **Shellbiotic**®



Throughout the years, Nuscience has acquired an extensive experience with Medium Chain Fatty Acids (MCFA). With the knowledge of the different effects of MCFA and their combinations with SCFA on the metabolism and intestinal health, Nuscience was able to develop **Shellbiotic** just specifically to sustain the genetic potential.

Shellbiotic is able to improve both the quantity of saleable or settable eggs and their guality, resulting in more first grade eggs with improved albumen guality.

The latter results directly in improved shell quality, hatchability and chick quality and might indirectly result in better growing performances of the offspring.





Next to a nutritional function, the

albumen offers a physical protection

against shocks. Moreover it forms a

barrier for microbial contamination.

Therefore it is very important that

the albumen quality (expressed In

Haugh Units: HU)

during storage.

stays as high as possible

#### 105 100 95 90 85 80 75

70



