

The Impact of Dietary Supplementation with an *Aspergillus oryzae*-derived Postbiotic on the Productive Performance of Laying Hens Under Commercial Conditions from 47 to 75 Weeks of Age.

Validation Trial United Kingdom

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- **AO-Biotics[®] EQE** improved the eggshell strength.
- **AO-Biotics[®] EQE** improved the egg weight.

SUMMARY

DOSE OF AO-BIOTICS[®] EQE USED
50 g/metric ton of feed

Supplementation with **AO-Biotics[®] EQE** improved the egg quality of the flocks.

VALUE

The inclusion of **AO-Biotics[®] EQE** in the nutritional program for laying hens contributes to increasing egg quality, improving the flock's productivity and the producer's rentability.

PROTOCOL

Location:

- Wales, United Kingdom (Southwest part of United Kingdom)

Duration:

- The impact of **AO-Biotics[®] EQE** was evaluated for 28 weeks, beginning the evaluation at week 47 of age.

Animals:

- Approximately 32,000 laying hens were distributed in two barns (16,000 birds per barn)
- Brown hens

Treatments:

- Control group without **AO-Biotics[®] EQE**
- Treatment group with the same diet as Control but supplemented with **AO-Biotics[®] EQE** at 50 g/ton of feed.

Trial Design:

- Laying hens were fed the same diet. One barn received the control diet, whereas the other barn received the control diet supplemented with 50 g of **AO-Biotics[®] EQE**/metric ton of feed.

Data Collection:

Hen production:

- Egg weight

Egg quality:

- Eggshell strength

RESULTS

The Inclusion of **AO-Biotics® EQE** in the diet from 47 to 75 weeks of age improved the egg quality of the flocks.

AO-Biotics® EQE inclusion improved the eggshell strength by 7% in the eggs laid compared to the control group (*Figure 1*).

AO-Biotics® EQE inclusion improved the egg weight by 4% compared to the control group (*Figure 2*).

Table 1. Mean eggshell strength of eggs laid by hens fed control or AO-Biotics® EQE treated diet from 47 to 75 weeks of age.

WEEK OF AGE	CONTROL			EQE			Difference
	EGGSHELL	n ¹	SD	EGGSHELL	n ¹	SD	
47	4.73	50	0.821	5.12	73	0.7654	8%
49	4.83	27	0.7018	4.69	18	0.8987	-3%
50	4.80	45	0.8503	5.32	45	0.7219	11%
60	4.71	31	0.9056	5.09	33	0.9271	8%
70	4.73	29	0.9334	5.01	29	0.9549	6%
75	4.24	28	0.5398	4.53	28	0.8692	7%
Combined	4.76	210	0.8214	5.12	226	0.8116	7%

¹Number of eggs evaluated.

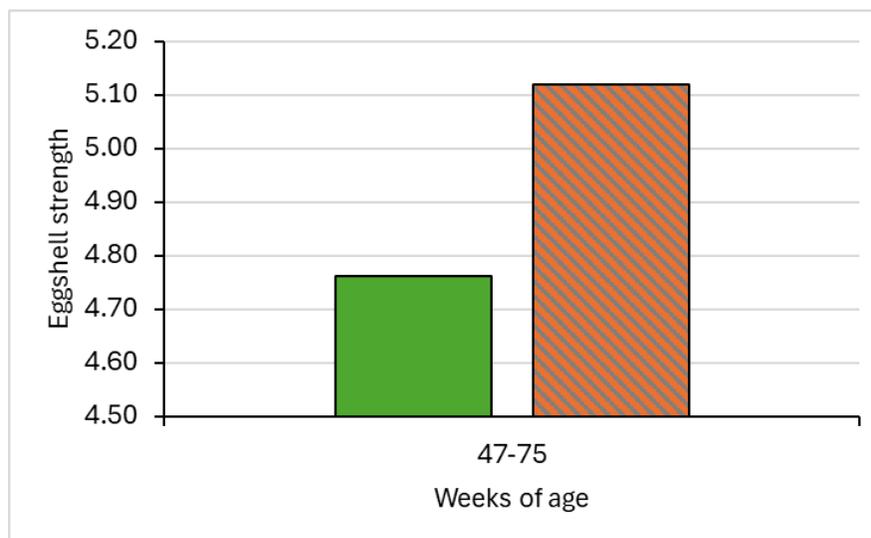


Figure 1. Impact of **AO-Biotics® EQE** at 50 g/ton of feed on the eggshell strength of eggs laid by hens from 47 to 75 weeks of age.

RESULTS

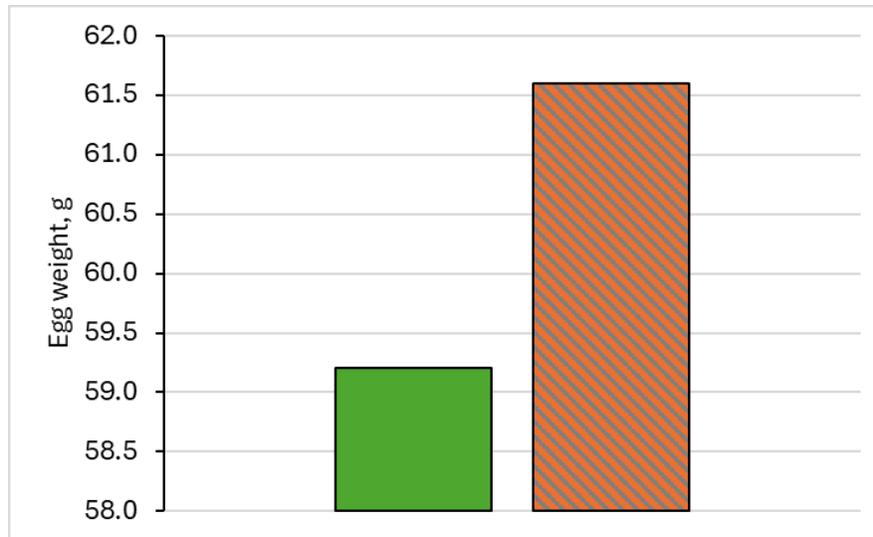


Figure 2. Impact of AO-Biotics[®] EQE at 50 g/ton of feed on the egg weight of eggs laid by hens from 47 to 75 weeks of age.

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