



Reducing Salmonella in commercial conditions using Miya-Gold® in fatteners

Trial description

1 Set-up

- **Location:** Commercial pig fattening farm (all in-all out batch system), Germany
- **Animals:** Fattening pigs coming into the farm at 30 kg (hybrid cross from Bundes Hybrid Zucht Programm)
- **Set up:** Blood analysis of an initial group (no Miya-Gold®) prior to slaughter showed 43 positive samples, with an average Salmonella titer of 54.81. As a result the farm was classified as Salmonella category III, causing economic deductions on the meat price.
- **Trial duration:** Mid-August 2018 until end of March 2019

2 Treatments

The following batches of animals received Miya-Gold® in their feed from the start, initially at a level of 500 g Miya-Gold® / mton of feed for the first week. This dosage was then reduced to 300 g Miya-Gold® / mton of feed for the remainder of the fattening period.

Miya-Gold® is a probiotic feed additive containing viable spores of *Clostridium butyricum* (MIYAIRI 588).

3 Measurements and results

Each time before slaughter 60 blood samples were analysed, showing that over time Miya-Gold® was able to mitigate Salmonella prevalence on-farm:

Batch	Blood samples per time point	Positive samples*	Negative samples*	Average Salmonella titer	Category
Initial group (no Miya-Gold®)	60	43	17	54.81	III
First Miya-Gold® supplemented batch	60	21	39	31.13	II
Second Miya-Gold® supplemented batch	60	16	44	26.92	II

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*Positive or negative depends on titer value: ≥ 40 is positive, < 40 is negative

**Miya-Gold® supplementation was adapted to the new category: added only in the stages of 30 to 50 kg body weight, at a level of 500 g Miya-Gold® / mton of feed

Conclusion

This commercial case shows how the use of Miya-Gold® can help to reduce and control Salmonella on-farm, resulting in a better economic return whilst ensuring food safety.