



## Supplementation with Miya-Gold® reduces antimicrobial consumption in piglets

### Trial description

#### Set-up

- ▶ Location: Sow farm in Denmark producing 35,000 piglets/year
- ▶ Animals: Weaned piglets severely affected by enteritis – *Enterobacteriaceae* – causing high mortality.
- ▶ Groups:
  - Control group: all pigs slaughtered from 31<sup>st</sup> October until 28<sup>th</sup> February the year after.
  - Treatment group: all pigs slaughtered from 31<sup>st</sup> March until 7<sup>th</sup> September.

#### Treatments

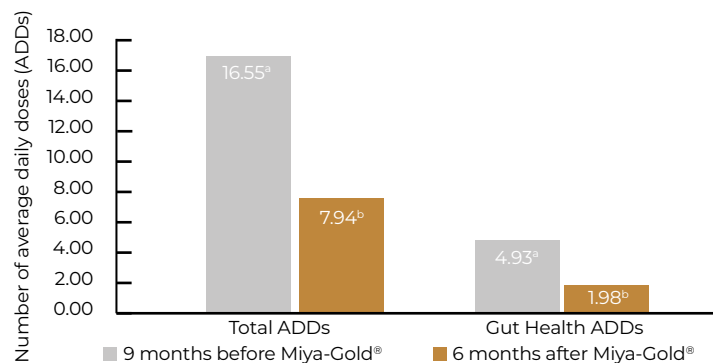
The treatment group received Miya-Gold®, a probiotic containing  $5 \times 10^8$  CFU/kg viable spores of *Clostridium butyricum* in the feed at different concentrations:

- ▶ 6-9 kg pigs: 2 kg Miya-Gold®/mT
- ▶ 9-15 kg pigs: 1 kg Miya-Gold®/mT
- ▶ 15-30 kg pigs: 0.5 kg Miya-Gold®/mT

#### Follow up

- ▶ Antimicrobial consumption (as average daily doses, ADDs) by Danish Ministry of Agriculture.
- ▶ Weekly mortality comparing:
  - Control period: 4 weeks before Miya-Gold® supplementation.
  - Treatment period: 9 weeks after Miya-Gold® supplementation.

### Results



**Figure 1.** Antimicrobial use (ADDs) before and during the supplementation of Miya-Gold®. Different letters mean a significant difference at  $p < 0.05$ .

### Conclusions

On a farm affected with *Enterobacteriaceae*, adding Miya-Gold® to the piglet diets resulted in:

- ▶ a reduction in mortality - from  $\pm 10\%$  to  $\pm 3\%$ .
- ▶ a significant reduction in total antibiotic use (-50%).
- ▶ a significant reduction in gut health antibiotic use (-60%).