



## Supplementation of Miya-Gold® from birth until growing decreases the amount of *Salmonella* positive fatteners

### Trial description

#### 1 Set-up

- **Location:** Commercial farm, Denmark. This farm passed the Danish threshold for financial deduction in carcass price (*Salmonella* level 2).
- **Groups:**
  - Control group: all pigs slaughtered from 01 January till 31 May 2017
  - Treatment group: all pigs slaughtered from 31 May till 31 August 2017
- **Sampling:** Randomly performed at the slaughterhouse at a frequency of 60 to 100 pigs/year/herd.

#### 2 Treatments

- Control group: pigs receiving pelleted feed from 0 to 30 kg bodyweight
- Treatment group: pigs receiving pelleted feed + 2 kg Miya-Gold® S/mton feed ( $1 \times 10^{12}$  CFU *Clostridium butyricum*) from 0 to 15 kg bodyweight and pelleted feed + 1 kg Miya-Gold® S/mton feed ( $5 \times 10^{11}$  CFU *Clostridium butyricum*) from 15 to 30 kg bodyweight

#### 3. Measurements

- *Salmonella* OD values in meat juice samples  
*Salmonella* meat juice samples with OD% >10 are considered positive

### Results

- In the Miya-Gold® S treated group, the number of positive *Salmonella* samples and the average *Salmonella* OD titer were significantly reduced (Table 1).
- A relative risk of 2.71 for being *Salmonella* positive in the control group was observed.

Table 1: Number of *Salmonella* positive animals and average *Salmonella* OD titer.

	Control group	Miya-Gold® S treated group
% of <i>Salmonella</i> positive animals (OD%>10)	47% (7/15)	17% (5/29)
Average <i>Salmonella</i> OD titer	15.8	6.7

### Conclusion

Miya-Gold® S protects piglets from being classified as *Salmonella* positive in slaughterhouse.