

Bacillus Probiotics as Direct Fed Microbials (DFMs) for Poultry Application

Invivo Biosciences

Advantages of *Bacillus* Probiotics

Many *Bacillus* species have **GRAS status**

Bacillus - spore formers (High Stability)

Excellent stability in formulation

High Stability during pelletization

Very good Stability in chicken gut

Known to inhibit Pathogens

Beneficial Immune Modulation

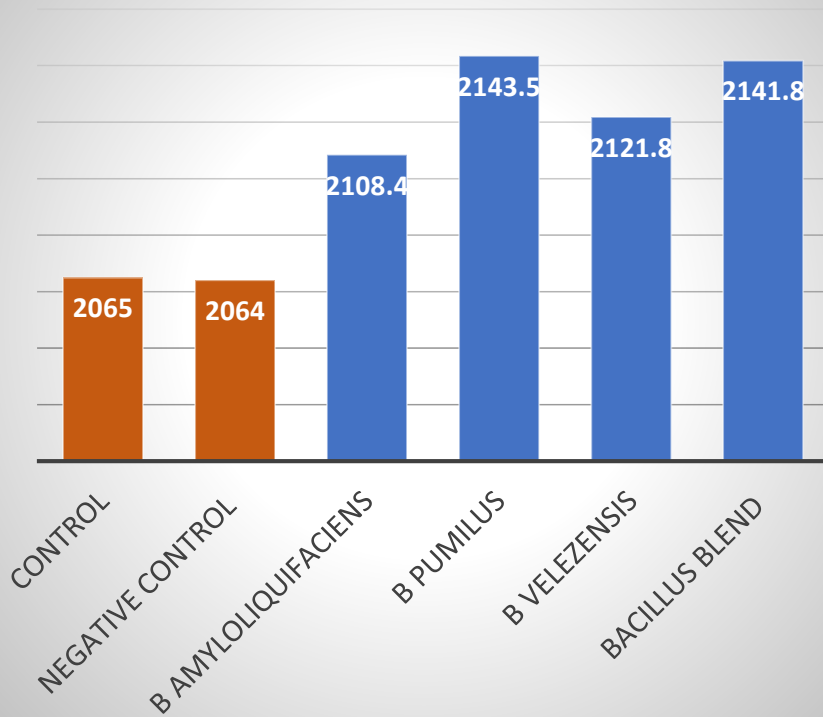
Trial in Commercial Broiler

- Study on efficacy of Invivo biosciences Bacillus species on Performance of Commercial Broilers.
- Trial conducted in 360 Cobb430 broiler straight run chicks.
- Equal number of males and females in six replicates of ten chicks in each replicate.
- Invivo probiotics was used at concentration of 10 billion CFU/g.

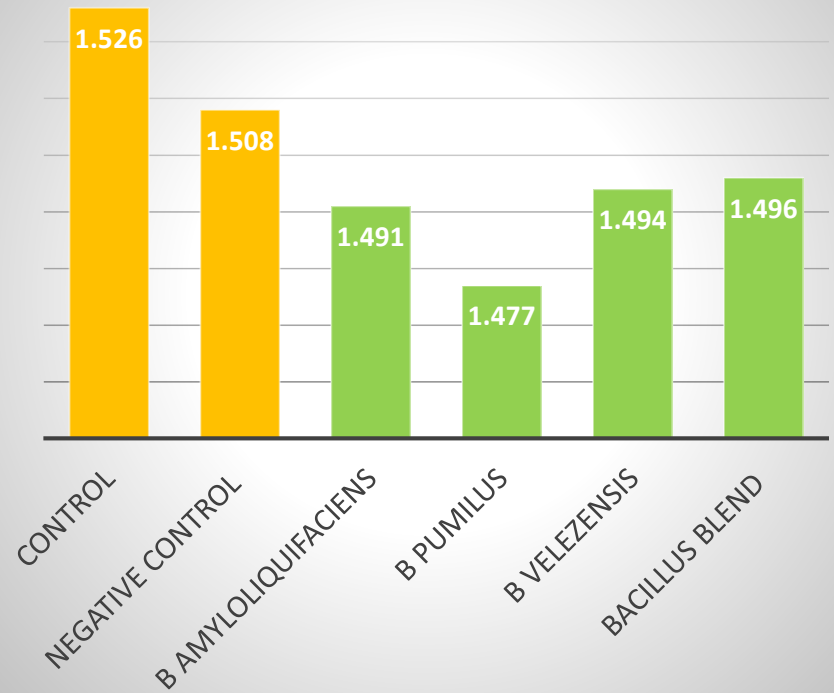
Treatment details	Dose g/ton
T1 Control (Commercial Probiotic)	100
T2 Negative Control without probiotic	
T3 <i>Bacillus amyloliquefaciens</i> (17)	100
T4 <i>Bacillus pumilus</i> (146)	100
T5 <i>Bacillus velezensis</i> (16)	100
T6 <i>Bacillus blend</i>	100

Results

Final Body weight of Broiler (Kg)

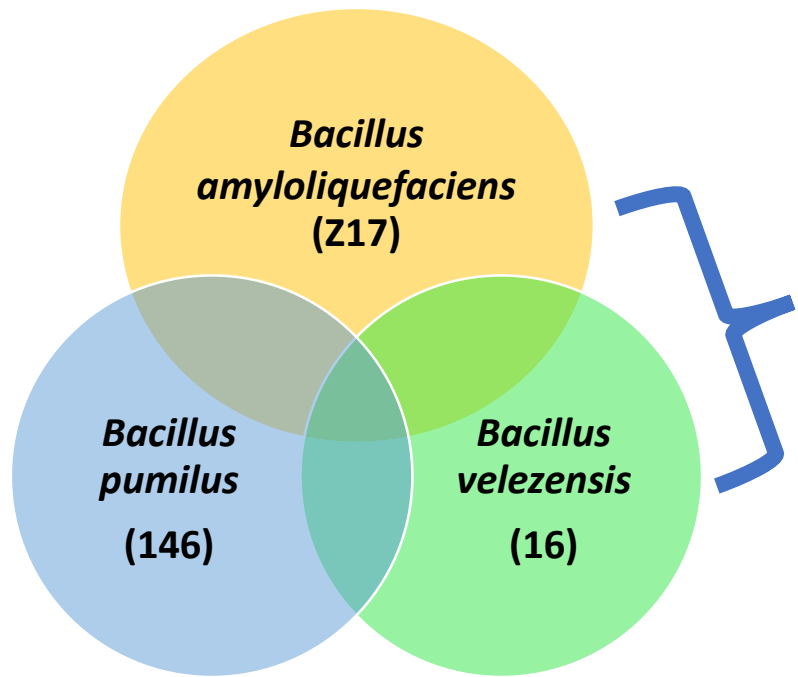


FCR

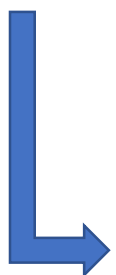


Invivo Probiotics & blend yielded in significantly higher Chick body weight & Lower FCR

In vivo Poultry Probiotics (DFMs)



- **Mitigation of Gut Pathogens**
- For Gut Health
- Recommended Dose –
1 Billion CFU/Kg of Feed of each strain



- **Broiler Growth & Quick Body weight gain**
- For Gut Health
- Recommended Dose –
1 Billion CFU/Kg of Feed