



Impact of Butirex C4 and Immax on the performance of post-weaning piglet

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Objectives: to test the new adjuvant Immax and Butirex C4 as a substitute for zinc oxide in post-weaning piglet

Method and Material

Products to be tested:

- Zinc Oxide (ZnO 2,500 ppm): Action on the intestinal microbiota and on local and systemic immune functions. Reduction of diarrhoea
- Immax (Scutellaria, Green tea, Turmeric, Sodium gluconate): Prebiotic, beneficial flora orientation, butyrate production, antioxidant, cell protection, anti-secretory action
- Butirex-C4: Sodium Butyrate (54%): Increases feed consumption, helps the development of the intestinal villi, strengthens the immune defense, increases the production of volatile fatty acids (VFA) and improves the stability of the intestinal flora.

Treatments:

P1 and P2: Control	P1 and P2: Immax 0.2%	P1: ZnO (2,500 ppm, 0.3%) P2: Immax 0.2%	P1 and P2: Immax 0.2% + Butirex 0.2%
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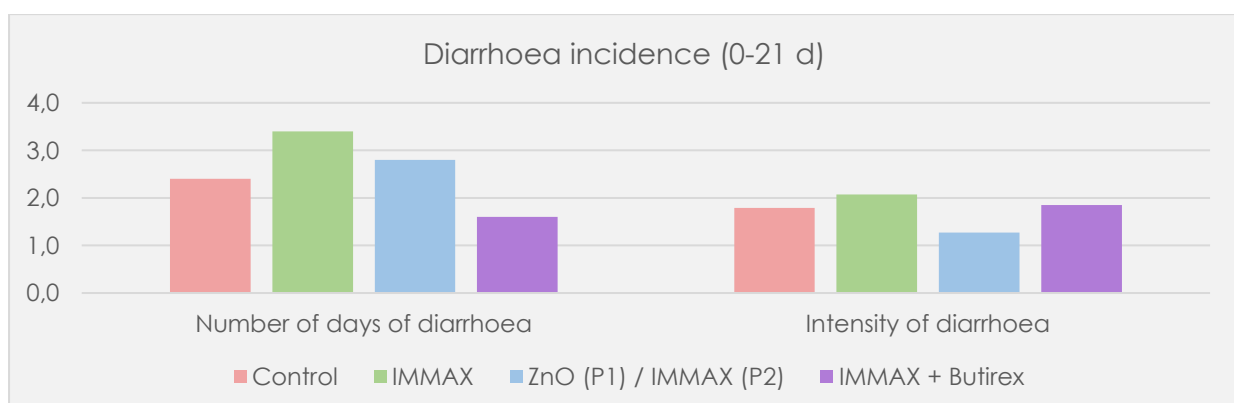
Animals:

- Genetics: Maxter (Piétrain) X LibraStar (Large White x Landrace) – Hypor
- 160 piglets (4 sets of 4 boxes of 5 piglets), weaned at 21 days of age

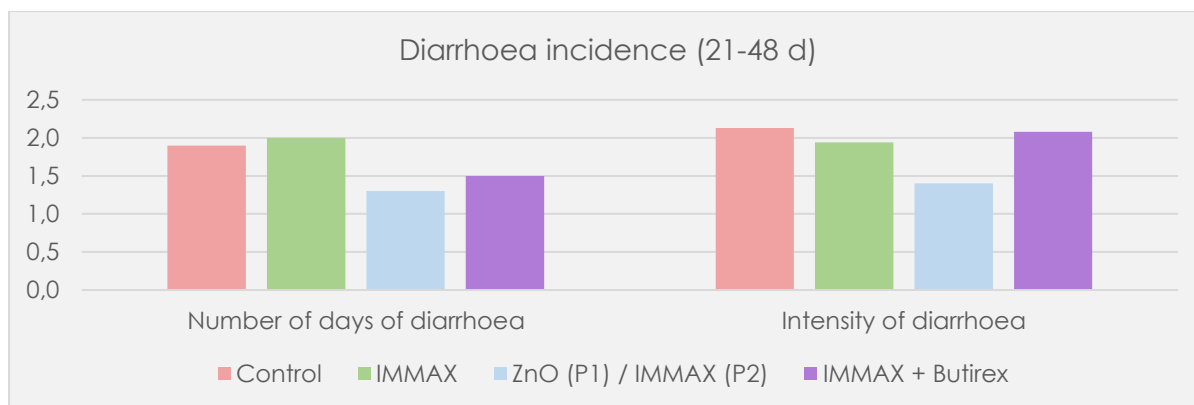
Measurements:

- Individual weighing and feed assessment on D0, D7, D14, D21, D34 and D48
- Health status and daily faeces notation
- Faeces samples on D21: VFA analysis

Results



From 0 to 21 d of the experiment: 1) Lower number of days of diarrhoea for the IMMAX + Butirex batch;
2) Lower intensity for the ZnO batch



From 21 to 48 d of experiment: 1) Lower number of days of diarrhoea for the ZnO (P1) / IMMAX (P2) and for the IMMAX + Butirex lots; 2) Lower average intensity for the ZnO (P1) / IMMAX (P2) batch

PRODUCTIVE PERFORMANCE (21-69 D)

	Control	IMMAX	ZnO (P1) / Immax (P2)	Butirex + IMMAX
ADG	441 a	455 a	482 b	473 ab
ADFI	677	686	707	712
FCR	1.52 a	1.48 ab	1.46 b	1.50 ab

Performances: Best ADG for the ZnO (P1) / IMMAX (P2) batch. The IMMAX + Butirex combination gives results between the Control batch and the ZnO (P1) / IMMAX (P2) batch

VFA (mM/L) at 21 d of experiment

	Control	IMMAX	ZnO(P1) / IMMAX (P2)	IMMAX + Butirex
Total VFA	72.11a	79.35a	56.99b	78.23a
C2	43.34a	45.57a	34.09b	44.15a
C3	16.17b	17.92b	12.92a	19.22bc
IC4	1.60a	1.83a	1.17b	1.76a
C4	7.47a	9.52b	6.09a	8.75ab
IC5	1.97a	2.37a	1.45b	2.32a
C5	1.48a	1.94b	1.11a	1.81ab
C6	0.11	0.20	0.21	0.24

Lower production of total VFA for batch ZnO (P1). Increase in the production of butyrate and valerate in the faeces for the IMMAX and IMMAX + Butirex batches observed compared to the control

CONCLUSIONS:

- The combination IMMAX + Butirex c4 during all periods has an effect similar to the ZnO (P1) / IMMAX (P2) batch on the performance and intestinal health of piglets (fewer days of diarrhea).
- The use of IMMAX in starter diets after using zinc oxide, helps maintain the performance and intestinal health of piglets.

Do you want to know more?



butirexC4.net