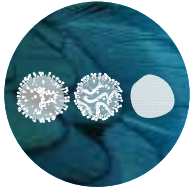


PUTTING YOU IN CONTROL OF PERFORMANCE

WHY CHOOSE INNOVAX[®] ND-IBD



3-IN-1 PROTECTION FROM A SINGLE INJECTION



EFFICIENT DISEASE CONTROL = HEALTHIER & MORE PRODUCTIVE BIRDS



SUPERIOR, LONG-TERM DISEASE PREVENTION



IMPROVED ROI²



REACTION-FREE³

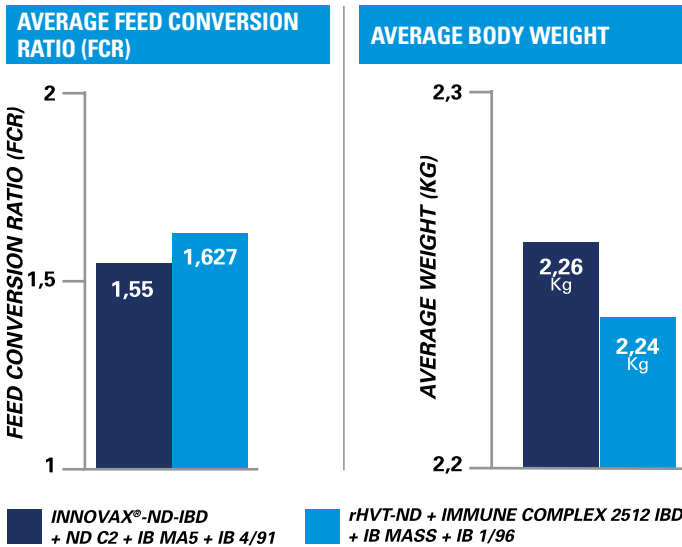


MAINTAINS BURSAL INTEGRITY²

DATA FROM THE FIELD

Field study 1 – Europe

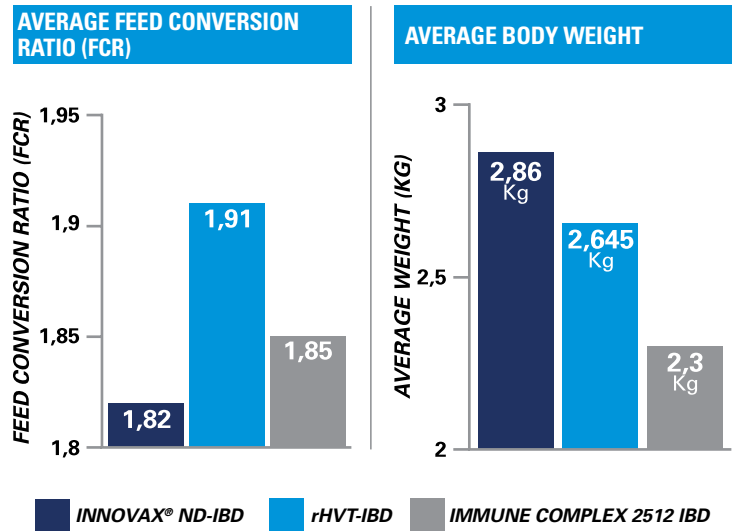
Broilers placed on similar farms from similar breeder flocks were vaccinated with one of two vaccination programmes. Farm 1 received Innovax[®] ND-IBD by subcutaneous injection and Nobilis[®] ND C2 and Nobilis[®] IB Ma5 simultaneously by hatchery spray followed by a Nobilis[®] IB 4/91 booster in the field. Farm 2 received an immune complex 2512 IBD vaccine and an rHVT-ND vaccine by subcutaneous injection with IB Mass by hatchery spray followed by an IB 1/96 booster in the field boost. Field performance is shown below.



Conclusion: The improvement in broiler performance was attributed to improved IBD control.

Field study 2 – Europe

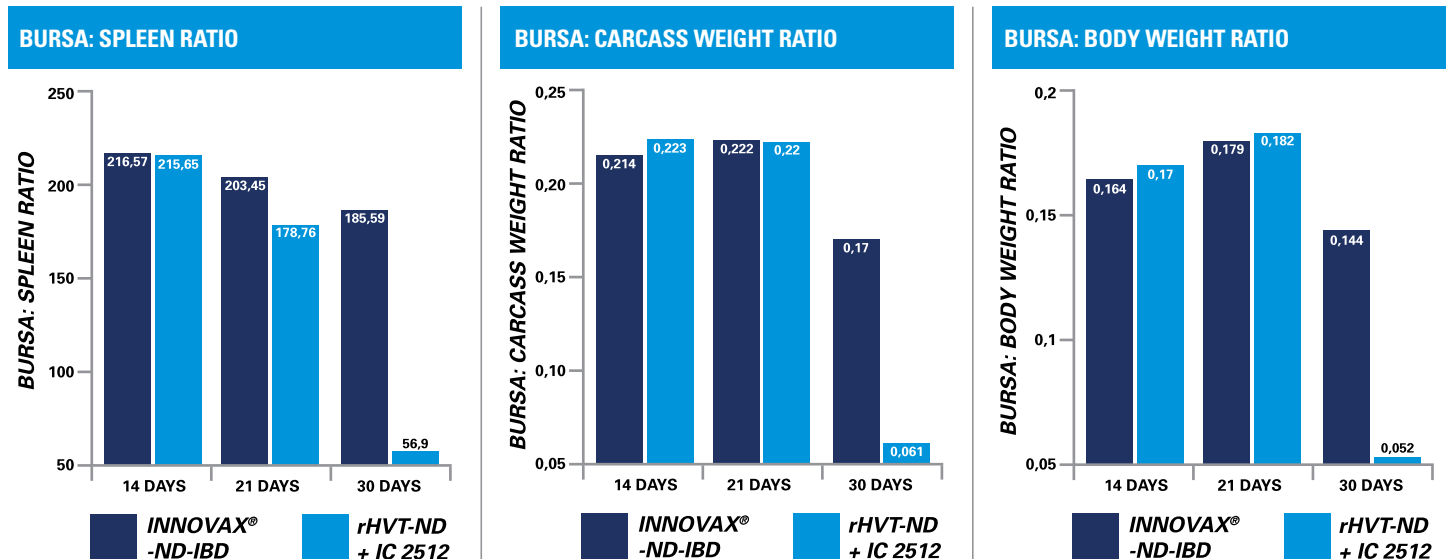
A different broiler company wanted to compare Innovax[®] ND-IBD to existing programmes with a focus on the IBD vaccination programmes. Day old chicks from the same breeder flocks were vaccinated with one of three programmes: Innovax[®] ND-IBD vs rHVT-IBD vs Immune complex 2512 IBD. The chicks were placed in three similar houses under the same management. Field performance is shown below.



Conclusion: Broilers receiving Innovax[®] ND-IBD showed improved FCR, heavier weights at processing and had reduced treatment compared to the other vaccine groups.

Field study 3 – Asia

A paired-house study compared bursal observations and field performance of Innovax® ND-IBD vaccinates vs a competitor programmes using an rHVT-ND plus an immune complex 2512 IBD vaccine, each given by subcutaneous injection at the hatchery. The results are as follows:



PRODUCTION PERFORMANCE					
GROUP	AGE (DAYS)	LIVEABILITY (%)	AVERAGE LIVE WEIGHT (KG)	FCR	BROILER PRODUCTION INDEX
INNOVAX® ND-IBD	30,92	96,49	1,67	1,51	345,08
rHVT-ND + IMMUNE COMPLEX 2512 IBD	32	96,05	1,61	1,58	305,86
DIFFERENCE	- 1,08	+ 0,44	+ 0,06	- 0,07	+ 39,23

Conclusion:

- Innovax® ND-IBD vaccinates demonstrated improved bursa:spleen, bursa:carcass weight and bursa:body weight ratio vs. the immune complex 2512 vaccinates.
- Innovax® ND-IBD demonstrated improved feed conversion, improved weight and improved broiler production index compared to a pairing of rHVT-ND and immune complex 2512 IBD vaccine.



- ✓ MAINTAINS BURSAL INTEGRITY
- ✓ IMPROVED FCR
- ✓ FASTER TO MARKET

choose **innovation**

- ALWAYS PRODUCING MORE:
 - WEIGHT GAIN
 - FEED CONVERSION
 - LIVEABILITY
- REACTION FREE
- TRIPLE PROTECTION IN A SINGLE INJECTION



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References:

1. MSD Animal Health Technical Bulletin: Improved Vaccination Process Plus No Vaccination Reaction Equals Improved Broiler Performance! 2018.
2. MSD Animal Health Technical Bulletin: Innovax ND-IBD vs. Genotype VII, subtype i, ND challenge: Innovax®-ND-IBD outperforms rHVT-ND + Immune Complex IBD under field conditions. 2019.
3. Innovax®-ND-IBD SPC