



Field Trials Using Bursa-Vac® 51 Vaccine

A large broiler integrator routinely used live intermediate strain IBD vaccines to vaccinate broilers. The normal program consisted of Univax®-BD vaccine injected at day-of-age, followed by water revaccination with either Univax®-BD vaccine or a Bursine® 2 at 7 days of age. This integrator was struggling with field challenge from IBD viruses that seemed to circumvent vaccination with a uniform vaccination program.

Bursa-Vac® 51 Field Trial

The integrator had 30 farms which fell consistently at the bottom of the performance ranking despite field vaccination with either of the two popular intermediate IBD vaccines. Twenty-five of these farms were

field-vaccinated with Univax®-BD vaccine because it produced better response (Group A), and five farms were vaccinated with Bursine® 2 vaccine (Group B). To expand the spectrum of protection, the integrator decided to use a dose of the usual intermediate IBD product, plus a dose of **Bursa-Vac® 51** vaccine in the water at the usual field boost age on each of the 30 farms. All farms were vaccinated with Univax®-BD vaccine at the hatchery. Performance results of flocks boosted with the two intermediate vaccines were compared to the previous 6-flock history of the vaccinated farms (Tables 1 and 2) and to the complex average during the course of the field trial (Table 3).

Conclusions

Both groups receiving **Bursa-Vac® 51** vaccine out-performed the previous 6-flock averages for the vaccinated farms and also out-performed the total complex average for flocks processed at the same time as the trials were conducted. The 30 "below-average" flocks achieved above-average performance.

Bursa-Vac® 51 vaccine has demonstrated excellent protection against the Delmarva variant IBD virus. The addition of **Bursa-Vac® 51** vaccine to the field boost program appears to have enhanced the spectrum of IBD protection, resulting in improved performance in the vaccinated flocks.

Key Points

- ▶ Thirty "below average" farms were vaccinated with Bursa-Vac® 51 vaccine in addition to their regular intermediate IBD field boost vaccine (Univax®-BD or Bursine® 2).
- ▶ All 30 farms demonstrated improved performance with the addition of Bursa-Vac® 51 vaccine to the field vaccination program compared to their previous 6-flock averages.
- ▶ All 30 farms performed above the complex average during the Bursa-Vac® 51 vaccine field trial.

Table 1**Group A: Univax®-BD/ Bursa-Vac® 51 vaccines vs. prior 6-flock average with Univax®-BD vaccine only**

	% Livability	% Condemn	Avg. Weight	Adjusted F.C.	Med.Cost	Total Cost
Control (previous 6-flock average- Univax®-BD vaccine only)	94.39	1.05	4.85	1.86	0.14	20.41
Univax®-BD + Bursa-Vac® 51 vaccines	95.79	0.70	5.07	1.83	0.14	19.93

Table 2**Group B: Bursine® 2/ Bursa-Vac® 51 vaccines vs. prior 6-flock average Univax®-BD (hatchery) + Bursine® 2**

	% Livability	% Condemn	Avg. Weight	Adjusted F.C.	Med.Cost	Total Cost
Control (previous 6-flock average- Univax®-BD vaccine at hatchery + Bursine® 2 boost)	94.32	0.96	4.89	1.85	0.13	20.26
Bursine® 2 + Bursa-Vac® 51 vaccine	94.92	0.80	5.15	1.82	0.15	19.92

Table 3**Groups A and B vs. Complex average during trial**

	% Livability	% Condemn	Avg. Weight	Adjusted F.C.	Med.Cost	Total Cost
Group A (Univax®-BD + Bursa-Vac® 51 vaccines)	95.79	0.70	5.07	1.83	0.14	19.93
Group B (Bursine® 2 + Bursa-Vac® 51 vaccines)	94.92	0.80	5.15	1.82	0.15	19.92
Complex Average	93.90	0.87	4.96	1.83	0.15	20.05

[Innovative Solutions in Poultry Health]



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