



EFFECTS OF FEEDING DIAMOND V® XPC™_{LS} ON THE HEALTH OF COCCIDIOSIS-CHALLENGED LAYERS

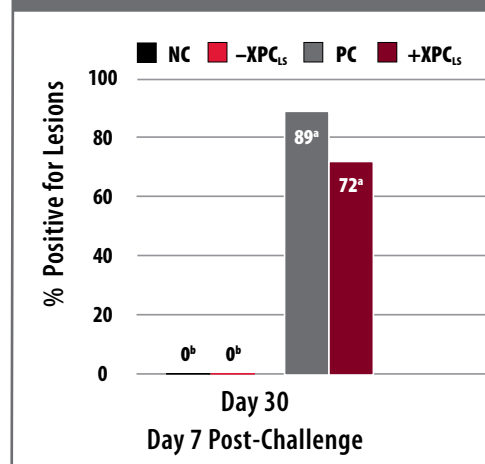
A research¹ summary of an evaluation of the effects of Diamond V's XPC_{LS} (non-GMO formula) on laying hen health and production during a *E. maxima* challenge performed at Schothorst Feed Research Facility.

RESEARCH SUMMARY

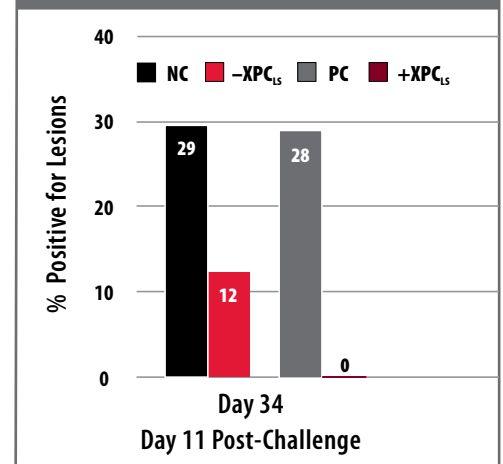
- 36 day trial with Brown Nick laying hens from 18-23 weeks of age.
- Trial was performed in floor pens.
- Performance parameters and lesion scores were measured.
- Each treatment consisted of 6 replicates/treatment and 9 birds/replicate.
- On day 23 of the trial hens were either inoculated with 1 ml of saline or 1 ml solution of *E. maxima* containing 10,000 oocysts.
- The trial was 2 X 2 factorial design of XPC_{LS} supplementation and coccidian challenge.
- Treatments consisted of:
 - Negative Control (NC)- No additive, no coccidian challenge
 - 0.075% XPC_{LS}, no coccidian challenge (- XPC_{LS})
 - Positive Control (PC)- No additive, coccidian challenge
 - 0.075% XPC_{LS}, coccidian challenge (+XPC_{LS}).

RESULTS

INCIDENCE OF COCCIDIAN LESIONS 7D POST CHALLENGE



INCIDENCE OF COCCIDIAN LESIONS 11D POST CHALLENGE

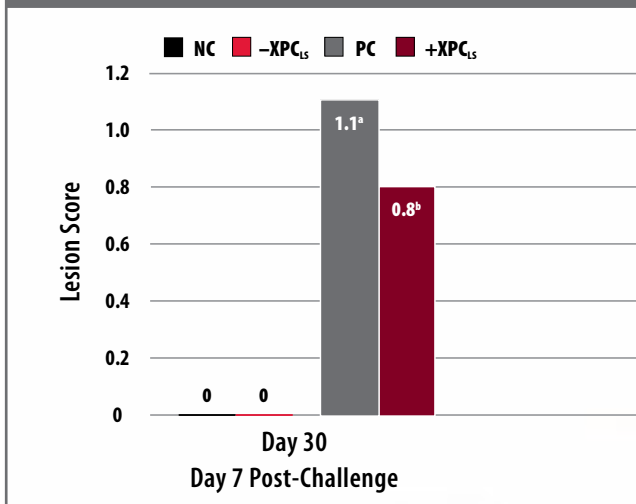


- Layers challenged with *E. maxima* showed an increased incidence of coccidian lesions 7 days following the challenge ($P < 0.05$). Groups not challenged with *E. maxima* showed signs of infection 11 days following the initial challenge.

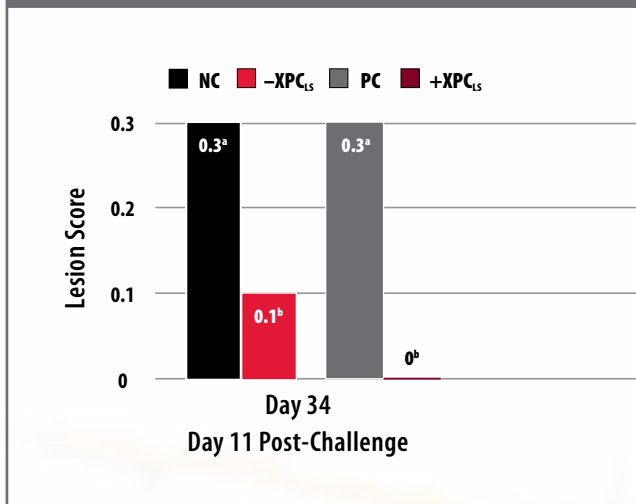
RESEARCH SUMMARY

- In the coccidian treated birds, the authors reported a significant ($P < 0.05$) reduction in severity of lesions on day 7 post-challenge in layers supplemented with XPC_{LS}. On day 11 post-challenge, supplementing the diets with XPC_{LS} significantly reduced ($P < 0.05$) the severity of lesions in layers, regardless of coccidian challenge.

SEVERITY OF COCCIDIAN LESIONS
7D POST CHALLENGE

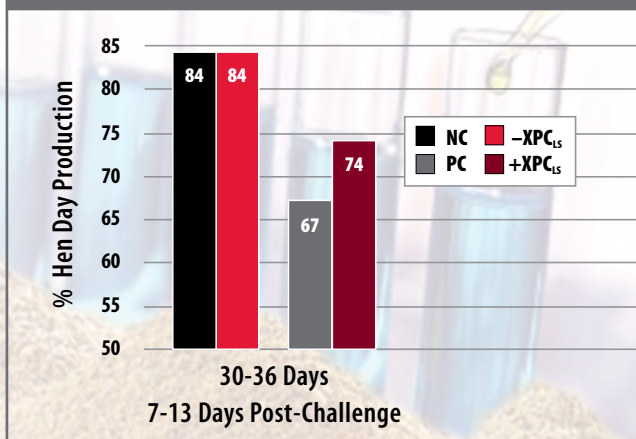


SEVERITY OF COCCIDIAN LESIONS
11D POST CHALLENGE



- Although there were no differences in egg production in the non-challenged hens, XPC_{LS} numerically increased egg production in coccidian challenged hens.

EGG PRODUCTION 7-13D POST CHALLENGE



¹Lensing, M., J.D. Van der Klis, L. Castillejos, and I. Yoon. Effects of Diamond V XPC_{LS} on intestinal health and productivity of coccidian challenged laying hens. 97th Annual Poultry Science Meeting: 293 and Final Report.

If you would like more information on this study, please contact your local Diamond V representative.

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