vaxxinova°

Vaxxon[®] SRP[®] E. coli-SE THE FIRST AND ONLY INACTIVATED E. COLI VACCINE

Escherichia Coli-Salmonella Enteritidis Bacterial Extract Vaxxon® SRP® E. coli-SE

...**\$**'\$77

INCREASE LIVABILITY AND NUMBER OF EGGS

ACHIEVE MORE EGGS PER HEN HOUSED BY INCREASING LIVABILITY AND DECREASING INCIDENCE OF *E. COLI* PERITONITIS

DEAD BIRDS DON'T LAY EGGS: Improve bird health and welfare, while maximizing genetic potential with *E. coli* and *Salmonella* protection using SRP technology.

REDUCED *E. COLI* **AND** *SALMONELLA*: Effective against mortality caused by *E. coli*.¹ Zero mortality was observed in vaccinated groups in our challenge studies. Effective against colonization of *E. coli* in the **reproductive tract**, internal organs and air sacs. Effective against SE colonization of the **reproductive tract**, internal organs and intestinal tract².

BROAD PROTECTION: By combining *E. coli* and *Salmonella* vaccines into one dose, you get 2X the protection for 1X the labor.

SAFETY FIRST: SRP vaccines are highly purified proteins, which often result in less flock setback and less tissue reaction than whole cell bacterins.



INNOVATIVE: First and only US-licensed combination *E. coli* & SE vaccine in the market. Uses siderophore receptor and porin (SRP) proteins as immunogens.

Proteins are good immunogens – stimulating both cell-mediated and humoral immune systems.

Includes good anamnestic response.

Focuses host immune response to bacterial SRP irrespective of serotype.

SRPs are highly conserved between strains of bacteria.

- Specificity of SRP antibodies does not depend on the serotype of the challenge strain
- SRP antibodies will attach to multiple serotypes

EFFECTIVE AGAINST E. COLI CHALLENGE

This product has been shown to be effective against mortality caused by E. coli

IMPROVED OVERALL LIVABILITY OF VACCINATED FLOCK RESULTS IN:

- More eggs per hen-housed
- Healthier birds result in better egg production
- Help birds maximize their genetic potential

THIS PRODUCT HAS BEEN SHOWN TO BE EFFECTIVE AGAINST COLONIZATION OF *E. COLI* IN THE REPRODUCTIVE TRACT, INTERNAL ORGANS AND AIR SACS:

- Reduced incidence of peritonitis, air sacculitis, colibacillosis
- Healthy reproductive tract leads to improved egg production
- Reduced potential for secondary bacterial infections after viral infections or other stressors



E. coli Challenge Study: Tissue Colonization

EFFECTIVE AGAINST SALMONELLA ENTERITIDIS (SE)

This product has been shown to be effective against SE colonization of the reproductive tract, internal organs, and intestinal tract

SALMONELLA SRP BENEFITS:

- Reduced probability of vertical transfer of SE to progeny
- Reduced potential for horizontal spread and environmental contamination

ANTIBODIES TO SE SRP HAVE BEEN OBSERVED TO LAST THROUGHOUT LAY PERIOD OF BROILER BREEDERS:³

- SE SRP antibodies were detected in broiler breeders up to 62 weeks of age
- SE SRP are passively transferred to progeny and detected till 14 days of age

SE Challenge Study: Tissue Colonization

SE colonization of tissues 14 days post-challenge (DPC)



Study No. 1821; *Prevented Fraction P≤ 0.03

REFERENCES:

- 1. Data on file. Study No. 1804, Vaxxinova US, July 17, 2018.
- 2. Data on file. Study No. 1821, Vaxxinova US, February 22, 2019.
- 3. Data on file. Study No. 2101. Vaxxinova US. May 2022.

