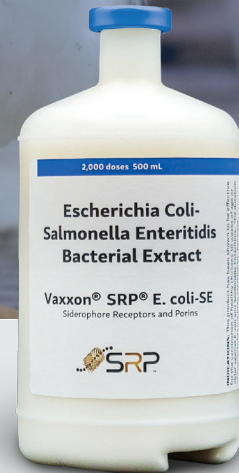


vaxxino<sup>®</sup>

# Vaxxon<sup>®</sup> SRP<sup>®</sup> E. coli-SE

THE FIRST AND ONLY INACTIVATED *E. COLI* VACCINE



## 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*.<sup>1</sup> 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 tract<sup>2</sup>.

**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

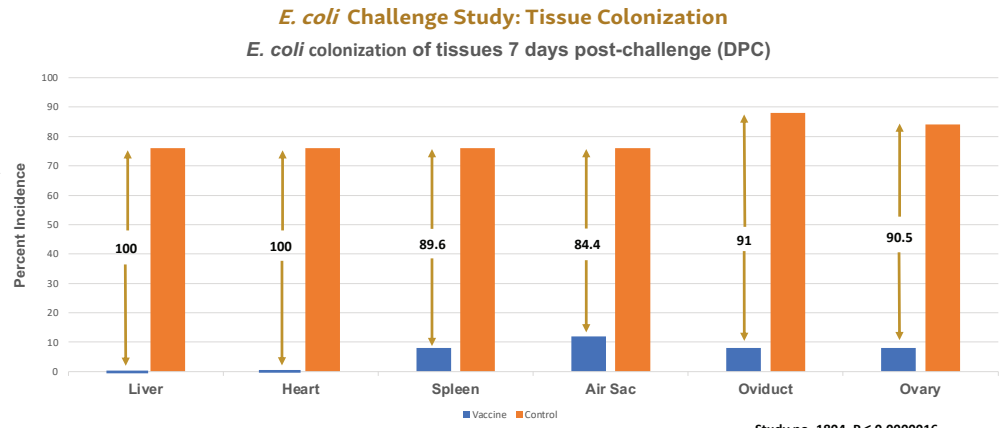
This product has been shown to be effective against mortality caused by *E. coli*

## 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



ZERO mortality observed in USDA efficacy trial  
 Data on file. Study No. 1804, Vaxxinova US, July 17, 2018.

# EFFECTIVE AGAINST *SALMONELLA* ENTERITIDIS (SE)

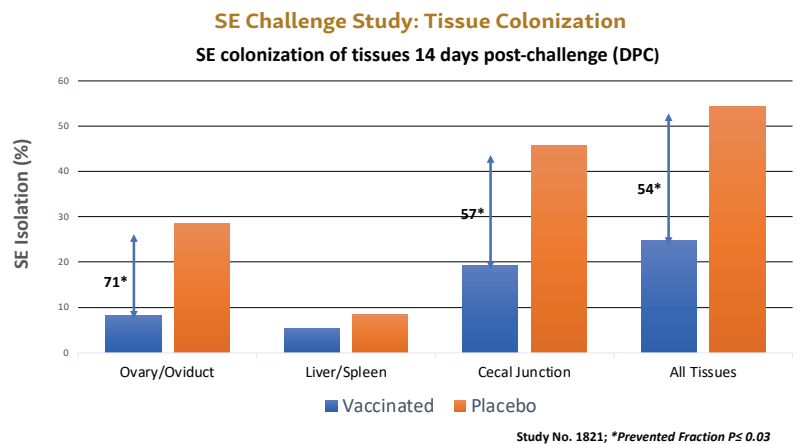
This product has been shown to be effective against SE colonization of the reproductive tract, internal organs, and intestinal tract

## 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:<sup>3</sup>

- 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



## 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.

