COMPREHENSIVE CONTROL

A comprehensive Salmonella control program is necessary to disrupt the transmission of Salmonella. Vaccination alone cannot be relied upon to prevent Salmonella infections. Conducting risk evaluations for sources of Salmonella entry, implementing biosecurity assessments and focusing on a proactive control program are all necessary. Comprehensive Salmonella control programs should include:

- Optimizing gut health
- Strong biosecurity measures
- Environmental monitoring
- Litter management
- Pest and rodent control
- Water and feed management

It may take multiple cycles of consistent control practices and vaccination of flocks to manage the Salmonella burden in live production. For less than two cents per bird, AviPro Megan Egg provides an effective option as part of a comprehensive Salmonella control program.

ACT NOW. PROTECT TOMORROW.

AviPro Megan Egg is part of a broad portfolio of Elanco poultry solutions offering confident decisions and peace of mind. With both inactivated and live vaccines, Elanco offers proactive Salmonella protection for all segments of the poultry industry. Our dedicated Elanco team is ready to help you develop a comprehensive Salmonella control program today.

Learn more at www.Elanco.us/Megan.
REDUCE SHEDDING, REDUCE PREVALENCE

The major obstacle to Salmonella control in the poultry industry is the ubiquitous presence of Salmonella. Poultry can be latent carriers, shedding and spreading Salmonella when stressed. Preventing colonization as early and effectively as possible reduces shedding and subsequently, the spread of Salmonella.

AviPro Megan Egg stimulates protective immunity and reduces Salmonella Typhimurium infections in turkeys — ultimately contributing to reduced environmental prevalence over time. Live ST vaccines, such as AviPro Megan Egg, provide a competitive exclusion (CE) effect against wild-type Salmonella and immunity as early as 12 hours. In addition, AviPro Megan Egg can be easily identified by its unique biochemical profile compared to wild-type Salmonella.

APPLICATION EASE

With coarse spray and drinking water applications, AviPro Megan Egg vaccine’s two-dose protocol easily adapts to hatchery and field vaccine programs. These vaccination methods parallel the natural infection path of Salmonella triggering local, humoral and cell-mediated immune responses that are unique only to live Salmonella vaccines. This protective immunity translates to reduced infections and shedding when birds encounter a field infection of wild-type Salmonella.

EFFECTIVE CONTROL

In a controlled study, AviPro Megan Egg research has shown Salmonella reduction in young turkeys. One-day-old poults were vaccinated with AviPro Megan Egg, revaccinated through drinking water at three weeks of age and then challenged with wild-type Salmonella Typhimurium at seven-weeks of age. AviPro Megan Egg-treated poults showed significantly reduced Salmonella colonization post-challenge compared to non-vaccinated poults.

Research has shown that in addition to providing excellent protection against serogroup B and D Salmonella spp., the live S. Typhimurium vaccine induces significant cross-protection against Salmonella strains belonging to serogroups C and E.

**Preventing Salmonella is an Everyday Investment**

As part of a comprehensive Salmonella control program, AviPro® Megan® Egg is a safe, effective and targeted intervention providing Salmonella protection every day. Prioritizing food-chain, brand and bird protection with a consistent, comprehensive Salmonella control program mitigates risk from egg to end consumer.
PREVENTING SALMONELLA IS AN EVERYDAY INVESTMENT

As part of a comprehensive Salmonella control program, AviPro® Megan® Egg is a safe, effective and targeted intervention providing Salmonella protection every day. Prioritizing food-chain, brand and bird protection with a consistent, comprehensive Salmonella control program mitigates risk from egg to end consumer.

REDUCE SHEDDING, REDUCE PREVALENCE

The major obstacle to Salmonella control in the poultry industry is the ubiquitous presence of Salmonella. Poultry can be latent carriers, shedding and spreading Salmonella when stressed. Preventing colonization as early and effectively as possible reduces shedding and subsequently, the spread of Salmonella.

AviPro Megan Egg stimulates protective immunity and reduces Salmonella Typhimurium infections in turkeys — ultimately contributing to reduced environmental prevalence over time. Live ST vaccines, such as AviPro Megan Egg, provide a competitive exclusion (CE) effect against wild-type Salmonella and immunity as early as 12 hours. In addition, AviPro Megan Egg can be easily identified by its unique biochemical profile compared to wild-type Salmonella.

APPLICATION EASE

With coarse spray and drinking water applications, AviPro Megan Egg vaccine’s two-dose protocol easily adapts to hatchery and field vaccine programs. These vaccination methods parallel the natural infection path of Salmonella triggering local, humoral and cell-mediated immune responses that are unique only to live Salmonella vaccines. This protective immunity translates to reduced infections and shedding when birds encounter a field infection of wild-type Salmonella.

EFFECTIVE CONTROL

In a controlled study, AviPro Megan Egg research has shown Salmonella reduction in young turkeys. One-day-old poults were vaccinated with AviPro Megan Egg, revaccinated through drinking water at three weeks of age and then challenged with wild-type Salmonella Typhimurium at seven-weeks of age. AviPro Megan Egg-treated poults showed significantly reduced Salmonella colonization post-challenge compared to non-vaccinated poults.

Research has shown that in addition to providing excellent protection against serogroup B and D Salmonella spp., the live S. Typhimurium vaccine induces significant cross-protection against Salmonella strains belonging to serogroups C and E.

IN TESTED

AviPro Megan Egg for turkeys is a USDA-licensed vaccine recommended as an aid in the prevention of Salmonella Typhimurium (ST) colonization of internal organs.

**DIRECTIONS FOR USE:** Vaccinate poults at one day of age by coarse spray application, followed by a revaccination through drinking water at three weeks of age.

**DOSE:** For a vaccine vial of 2,500 doses, mix the vial contents with the appropriate volume of cool, non-chlorinated, sterile water to vaccinate 2,500 birds.

**Caution:** Store at 35–45°F (2-7°C). Do not freeze.

**AviPro Megan Egg**

USE ~25-28 ml/100 poults Can mix with NDV-IB and HEV vaccines

Use dye with stabilizer + vaccine Remove disinfectants 24h prior and after

Check tongue staining to monitor vaccine uptake Raise lines 2h prior

Use dye with stabilizer + vaccine

**AviPro Megan Egg Treatment** 36/39 (92.3%)

**No Treatment** 5/39 (12.8%)

**Salmonella prevention IN TURKEYS**

AviPro Megan Egg for turkeys is a USDA-licensed vaccine recommended as an aid in the prevention of Salmonella Typhimurium (ST) colonization of internal organs.

**Photos:** Elanco Animal Health

Number of ST-challenged birds

<table>
<thead>
<tr>
<th></th>
<th>AviPro Megan Egg Treatment</th>
<th>No Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds tested ST positive</td>
<td>36/39 (92.3%)</td>
<td>5/39 (12.8%)</td>
</tr>
<tr>
<td>Birds tested ST negative</td>
<td>CS/Water</td>
<td>CS/Water</td>
</tr>
</tbody>
</table>

*All birds sacrificed 7 days post-challenge; one gram samples (liver, spleen) collected, pooled and cultured for challenge ST organism

Values followed by different letters are significantly different (Fisher’s Exact test; p < 0.05)

**CS/Water** = Coarse spray with diluent only/drinking water with diluent only

**After coarse spray vaccination**

*After coarse spray vaccination*
A comprehensive Salmonella control program is necessary to disrupt the transmission of Salmonella. Vaccination alone cannot be relied upon to prevent Salmonella infections. Conducting risk evaluations for sources of Salmonella entry, implementing biosecurity assessments, and focusing on a proactive control program are all necessary. Comprehensive Salmonella control programs should include:

- Optimizing gut health
- Strong biosecurity measures
- Environmental monitoring
- Litter management
- Pest and rodent control
- Water and feed management

It may take multiple cycles of consistent control practices and vaccination of flocks to manage the Salmonella burden in live production. For less than two cents per bird, AviPro Megan Egg provides an effective option as part of a comprehensive Salmonella control program.

ACT NOW, PROTECT TOMORROW.

AviPro Megan Egg is part of a broad portfolio of Elanco poultry solutions offering confident decisions and peace of mind. With both inactivated and live vaccines, Elanco offers proactive Salmonella protection for all segments of the poultry industry. Our dedicated Elanco team is ready to help you develop a comprehensive Salmonella control program today.

Learn more at www.Elanco.us/Megan.