

The label contains complete use information, including cautions and warnings. Always read, understand and follow label and use directions.

AviPro Megan Vac 1 for broilers is a USDA-licensed vaccine recommended as an aid to reduce colonization of S. Typhimurium, S. Enteritidis and S. Heidelberg.

AviPro Megan Vac 1 Directions for Use:

Vaccinate chickens at one day of age by coarse spray application. A second dose should be given at 14 days of age in the drinking water.

Dose:

Apply vaccine to all birds in flock

CAUTION: Store at 2°-8°C (35°-46°F). Do not freeze.

Contact Elanco with questions at 1-800-428-4441 or 1-888-545-5973.

FOR VETERINARY USE ONLY

¹Elanco Animal Health. Data on file.

²Elanco Animal Health. Data on file.

³McReynolds JL, et al. Evaluation of a competitive exclusion culture and Megan Vac 1 on S. Typhimurium colonization in neonatal broiler chickens. J. Appl. Poult. Res. 2007;16:456-463.

"Van Immerseel F, et al. The effect of vaccination with a S. Enteritidis aroA mutant on early cellular responses in caecal lamina propria of newly-hatched chickens. Vaccine. 2002;20:3034-3041.

⁵Elanco Animal Health. Data on file.

⁶Hassan JO, et al. Control of colonization by virulent S. Typhimurium by oral immunization of chickens with a virulent Δcya Δcrp S. Typhimurium. Res. Microbiol. 1990;141:839-850.

⁷Babu U, et al. S. Enteritidis clearance and immune responses in chickens following Salmonella vaccination and challenge. Vet. Immunol. Immunopathol. 2004;101:251-257.

⁸Holt PS. Use of a live attenuated S. Typhimurium vaccine to protect hens against S. Enteritidis infection while undergoing molt. Avian Dis. 2003;47:656-661.

⁹Hassan JO, et al. Development and evaluation of an experimental vaccination program using a live avirulent S. Typhimurium strain to protect immunized chickens against challenge with homologous and heterologous Salmonella serotypes. Infec. Immun. 1994;62:5519-5527.



Intestinal lining of day-old bird

Before coarse spray vaccination



After coarse spray vaccination



Photos: Elanco Animal Health

Salmonella Protection is an Everyday Investment

As part of a comprehensive Salmonella control program, AviPro® Megan® Vac 1 is a safe, effective and targeted intervention providing Salmonella protection every day.¹ Mitigating food safety risk starts by prioritizing bird health, food chain safety and brand protection with a consistent, comprehensive Salmonella control program.

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 Vac 1 stimulates protective immunity and reduces *S*. Typhimurium (ST), *S*. Heidelberg (SH) and *S*. Enteritidis (SE) infections in young, growing chickens — ultimately contributing to reduced environmental prevalence over time.² Live ST vaccines, such as AviPro Megan Vac 1, provide a competitive exclusion (CE) effect against wild-type *Salmonella* and immunity as early as 12 hours.^{3,4} In addition, AviPro Megan Vac 1 can be easily identified by its unique biochemical profile compared to wild-type *Salmonella*.⁵







Visit **elanco.us/Megan** to learn more.





Application Ease

With coarse spray and drinking water applications, the two-dose application protocol of AviPro Megan Vac 1 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.^{6,7} This protective immunity translates to reduced infections and shedding when birds encounter a field infection of wild-type *Salmonella*.⁸

AviPro Megan Vac 1 Application — Broilers

SPRAY	DRINKING WATER
Use 1000 doses for 1000 chicks	Can mix with NDV-IB vaccines
Can mix with NDV-IB vaccines	Remove disinfectants 24 hours prior and after application
Use dye with stabilizer and vaccine	Raise lines 1 hour prior
Check tongue staining	Use dye and stabilizer with vaccine

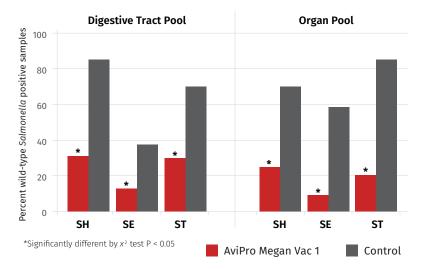
Effective Control

In a controlled study, AviPro Megan Vac 1 research has shown a significant reduction of ST, SH and SE in young chicks. One-day-old leghorn chicks were vaccinated with AviPro Megan Vac 1, revaccinated through drinking water at two weeks of age and then challenged with ST, SH, and SE wild-type strains at six weeks of age. AviPro Megan Vac 1-treated birds showed significantly reduced *Salmonella* colonization post-challenge when compared to non-vaccinated birds.²

Research has shown that in addition to providing excellent protection against serogroups B and D Salmonella spp., the live ST vaccine induces significant cross-protection against Salmonella strains belonging to serogroups C and E.9

Efficacy Trial Results²

Percent wild-type SH, SE or ST positive samples 5 to 7 days post challenge



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. AviPro Megan Vac 1 provides an effective option as part of a comprehensive *Salmonella* control program.

Act Now. Protect Tomorrow.

AviPro Megan Vac 1 is part of a broad portfolio of Elanco poultry solutions offering confidence 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.

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