



Salmonella vaccinations help keep your dairy healthy

When your cows are sick, you do your best to make them better. If you can prevent them from falling ill in the first place, you'd be even happier. That's why vaccination is a key component of any *Salmonella* control program. Incorporating a vaccine such as SALMONELLA NEWPORT BACTERIAL EXTRACT VACCINE* with SRP® technology, makes sense for all dairies, whether you've experienced a *Salmonella* Newport outbreak or not.

"The SALMONELLA NEWPORT BACTERIAL EXTRACT VACCINE contains extracts of whole *Salmonella* Newport cells," explained Gary Neubauer, DVM, Zoetis. "The bacterial extract vaccine helps generate antibodies that help prevent iron from being utilized by *Salmonella* Newport bacteria, causing them to die and helping prevent the spread of *Salmonella* Newport."

Dr. Neubauer pointed out that compared with a placebo, the vaccine showed a 97% reduction in moderate to severe scours in calves challenged with *Salmonella* Newport.¹ A published study showed milk production increased by 2.5 pounds per cow on a farm that compared the vaccine against a placebo.² That herd had no signs of salmonellosis before treatment.²

"What would your cows produce if they weren't spending energy fighting *Salmonella*?" Dr. Neubauer asked.

Subclinical salmonellosis is hard to detect because the symptoms could come from other factors. *Salmonella* can cause reduced milk production, poor reproductive performance, abortions, weight loss and poor feed efficiency. Cows with subclinical salmonellosis can shed the bacteria, show no symptoms or even act as latent carriers with no symptoms or shedding. But by vaccinating, cows can have a significant decrease in fecal shedding of *Salmonella* Newport, one 14-day study showed.¹

In addition to manure, *Salmonella* also can be shed through milk, which can inflate somatic cell counts (SCC). Again, vaccination with the SALMONELLA NEWPORT BACTERIAL EXTRACT VACCINE helps keep your animals healthy, as vaccinated cattle in one study maintained a somatic cell count under 200,000 while those that weren't vaccinated averaged more than 400,000 SCC.²

The vaccine is easily administered through one subcutaneous 2 mL dose given ahead of the shoulder, plus a booster two to four weeks later. After the initial whole-herd vaccination, an annual revaccination at dry off helps provide protection from this costly disease.

“Don’t let your guard down when it comes to *Salmonella* Newport,” Dr. Neubauer said. “Especially when prevention can be as simple as incorporating a *Salmonella* Newport vaccine, and numerous studies support the benefits of vaccination.”

To learn more about the threat of *Salmonella* and how vaccinating can help keep your dairy healthy, visit SalmonellaRisk.com.

About Zoetis

Zoetis (zō-EH-tis) is the leading animal health company, dedicated to supporting its customers and their businesses. Building on a 60-year history as the animal health business of Pfizer, Zoetis discovers, develops, manufactures and markets veterinary vaccines and medicines, complemented by diagnostic products and genetic tests and supported by a range of services. In 2012, the company generated annual revenues of \$4.3 billion. With approximately 9,300 employees worldwide at the beginning of 2013, Zoetis has a local presence in approximately 70 countries, including 29 manufacturing facilities in 11 countries. Its products serve veterinarians, livestock producers and people who raise and care for farm and companion animals in 120 countries. For more information on the company, visit www.zoetisUS.com.

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¹ Data on file, Epitopix LLC Study Report No. 0606, Zoetis Inc.

² Hermes DR, Thomson DU, Loneragan GH, Renter DR, White BJ. Effects of a commercially available vaccine against *Salmonella enterica* serotype Newport on milk production, somatic cell count and shedding of *Salmonella* organisms in female dairy cattle with no clinical signs of salmonellosis. *Am J Vet Res* 2008;69(9):1229-1234.

*This product license is conditional. Efficacy and potency test studies are in progress.

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