

Facing salmonella head on with Primun

Primun Salmonella *E* / Primun Salmonella *T*

- + Duration of immunity*
- + Protection**
- + Diagnostic accuracy



*According to SPC/**Use in laying in authorised countries

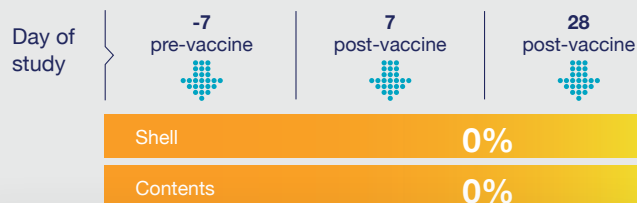
Primun Salmonella E ▶ PROTECTION DURING THE LAYING PERIOD TOO



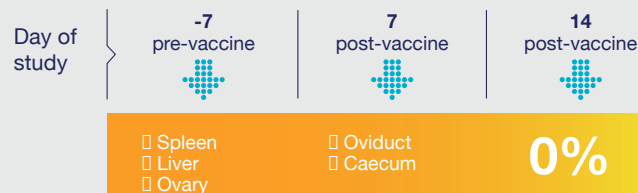
- Live vaccine against *Salmonella Enteritidis*
- Only vaccine authorised in production period (review SPC of each country)
- Prolonged protection 40 weeks after application during laying

Primun Salmonella E has been shown to be completely safe for use during the egg production period, prolonging protection up to 40 weeks after application. In 55-week application tests in a group of hens with a previous schedule of 3 doses in rearing, it has been shown that the vaccine strain does not excrete in either eggs or cloacal swabs.

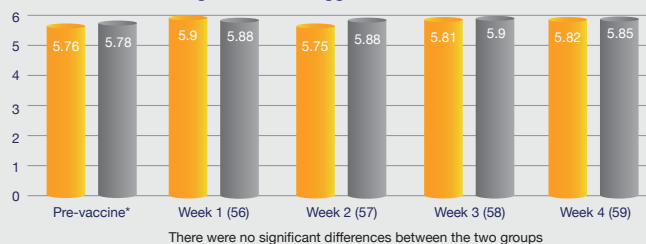
Presence of the vaccine strain in eggs (shell and contents)



Detection of the vaccine strain in internal organs



Average number of eggs in vaccinated birds



In the study, it was also shown that application of the dose during laying does not alter the production parameters in comparison with a control group

- Average eggs bird/week in birds vaccinated with a 4th dose during laying
- Average eggs bird/week in vaccinated hens in rearing (3 doses)

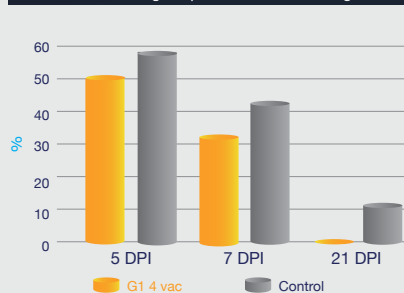
After a challenge at 95 weeks, a reduction in the shedding of the field strain was observed, as was a reduction in colonisation in birds vaccinated with

Primun Salmonella E

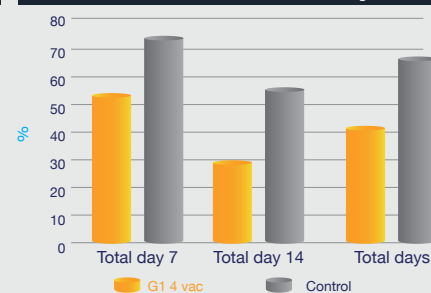
The following results were obtained:

Study Code SEV A 046 E18 authorised by the AEMPS (Spanish Agency of Medicines and Medical Devices).
Study published and presented at the 7th Mediterranean Poultry Summit (WPSA-June 2022)

Percentage of post-infection shedding



% of colonisation of the total of internal organs



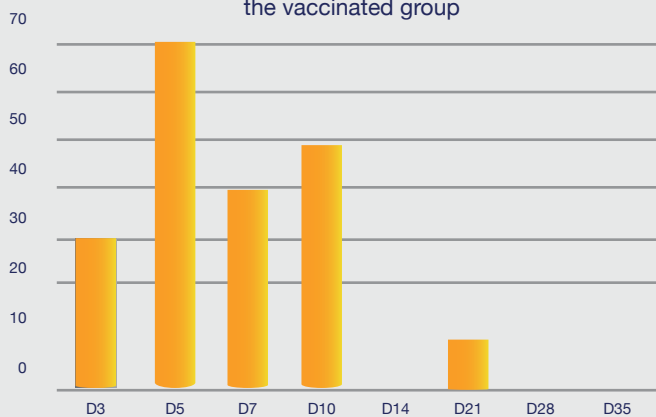
The results show significant differences between G1 (3 vaccines during rearing + 1 in laying) and the control group

Primun Salmonella *T* ▶ PROTECTION FOR BROILERS TOO



- Live vaccine against *Salmonella Typhimurium*
- Authorised for long cycle birds and broilers
- Differential diagnosis of the vaccine strain via PCR

% Detection of the vaccine strain in cloaca in the vaccinated group



Studies presented at the XVI European Poultry Conference (Valencia, Spain, June 2024)

The following results were obtained:

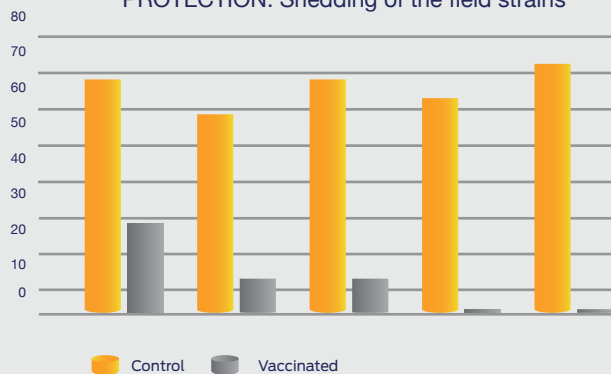
- The studies show a reduction in vaccine strain shedding to minimum levels starting on day 14 after vaccine application

The reduction in the

- shedding of the field strain and in organ colonisation is highly significant

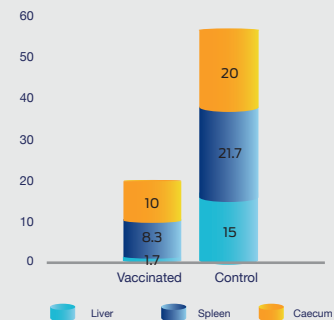


PROTECTION. Shedding of the field strains



Studies presented at the XVI European Poultry Conference (Valencia, Spain, June 2024)

PROTECTION. Colonisation of challenge strains in internal organs



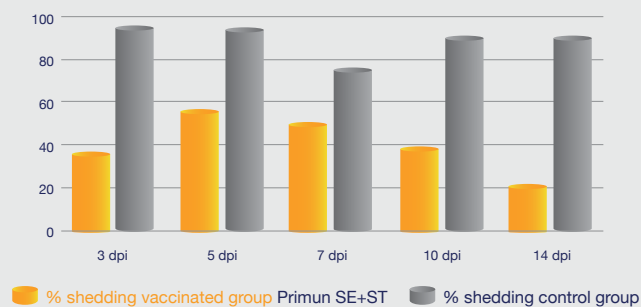


Primun Salmonella *E* and Primun Salmonella *T*

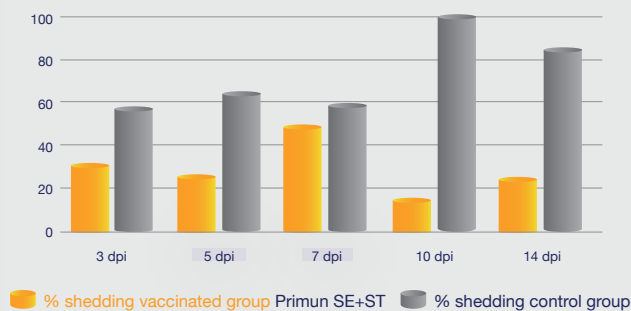
Primun Salmonella *E* and Primun Salmonella *T* have shown a significant reduction in the shedding and isolation of field strains in tissue in challenge tests.

Shedding of challenge strains following application

Shedding of challenge strain (*S. enteritidis*)



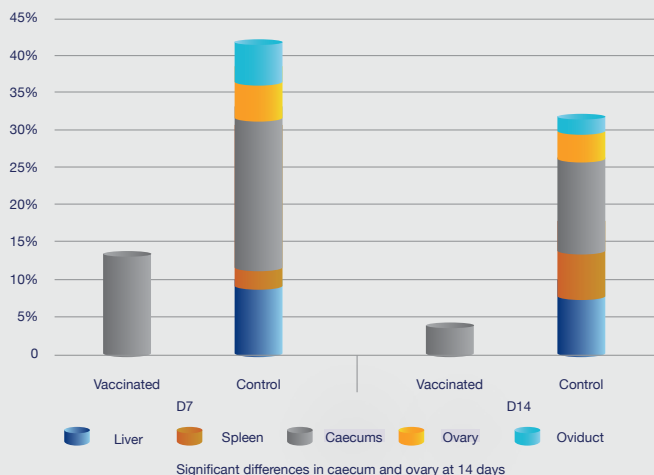
shedding of challenge strain (*S. typhimurium*)



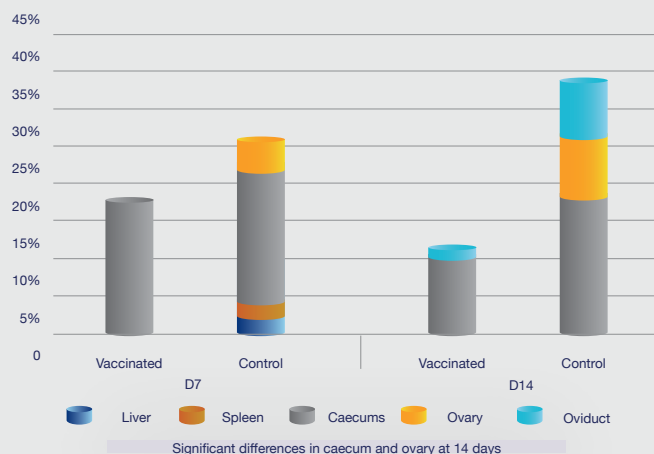
Study Code SET A 036 E 21. Study published and presented at the 7th Mediterranean Poultry Summit (WPSA-June 2022)

Isolation of challenge strains following application

Isolation of challenge strains (*S. Enteritidis*) in birds vaccinated with Primun SE+ST



Isolation of challenge strains (*S. Typhimurium*) in birds vaccinated with Primun SE+ST



Study code SEV A 042 E 16 authorised by the AEMPS (Spanish Agency of Medicines and Medical Devices). Study published and presented at the 7th Mediterranean Poultry Summit (WPSA-Junio 2022)

LONGER-LASTING IMMUNITY



Primun Salmonella *E*

PROTECTION AGAINST
SALMONELLA ENTERITIDIS

Up to 80 weeks
of life after the
third vaccination*

Up to 40 weeks after
vaccination during
laying*



Leaflet



Primun Salmonella *T*

PROTECTION AGAINST
SALMONELLA TYPHIMURIUM

61 weeks
after the third
vaccination*



Leaflet



In case of questions, consult your veterinarian.

(*) In all cases, a vaccination schedule of 3 doses of Primun Salmonella was applied during the rearing period according to the indications for use in the product's data sheet.

OUR STAND-OUT TOOLS



The strains contained in **Primun Salmonella E** and **Primun Salmonella T** can be distinguished from the field strains via molecular methods to offer enhanced precision.

At Calier, we have a proprietary Diagnostic Center (CECADI) where you can request your tests online, check results and always have access in your profile to your past requests.



Sign up now and start making the most of the benefits!



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Click on **“Sign up”** in the Diagnostic Center. You can **set up your profile** and start to make the most of the online platform where you can **request and consult all your tests digitally**.



Wevap is the tool for digitising vaccination audits with Primun.

With Wevap, you can ensure the entire process: from safety measures to taking samples or preparing and applying vaccines.

Wevap also lets you perform internal audits that are assessed and annotated by our technical services to propose areas for improvement.

Sign up with this **QR code** or on our **website** and start **using Wevap!**





Primun vaccines

are developed and produced in our León-based biologics plant, one of the leading biotechnology centres in Spain and a cutting-edge facility in Europe for the development of these types of products.



DIAGNOSTIC LABORATORY

These facilities are also home to our CECADI Diagnostic Center, where we isolate pathogens in order to develop customised **autovaccines** for singles farm or various epidemiologically related farms.



MANUFACTURER OF AUTOVACCINES

