CALIER

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.

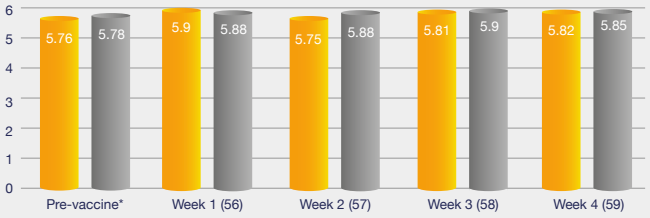
Presence of the vaccine strain in eggs (shell and contents)

Day of study	-7 pre-vaccine	7 post-vaccine	28 post-vaccine
Shell			0%
Contents			0%

Detection of the vaccine strain in internal organs

Day of study	-7 pre-vaccine	7 post-vaccine	14 post-vaccine
Spleen, Liver, Ovary, Oviduct, Caecum			0%

Average number of eggs in vaccinated birds



There were no significant differences between the two groups

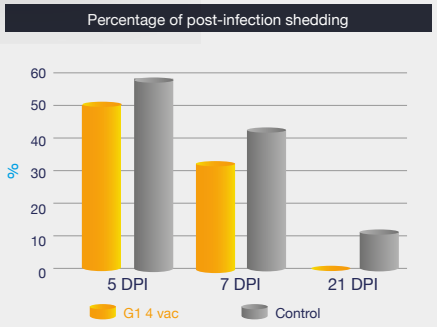
In the study, it was also shown that application of the dose during laying does not alter the production parameters in comparison with a control group

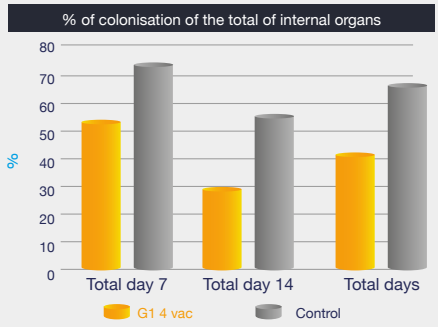
- Average eggs bird/week in birds vaccinated with a 4th dose during laying
- Average eggs bird/week in vaccinated hens in rearing (3 doses)

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:





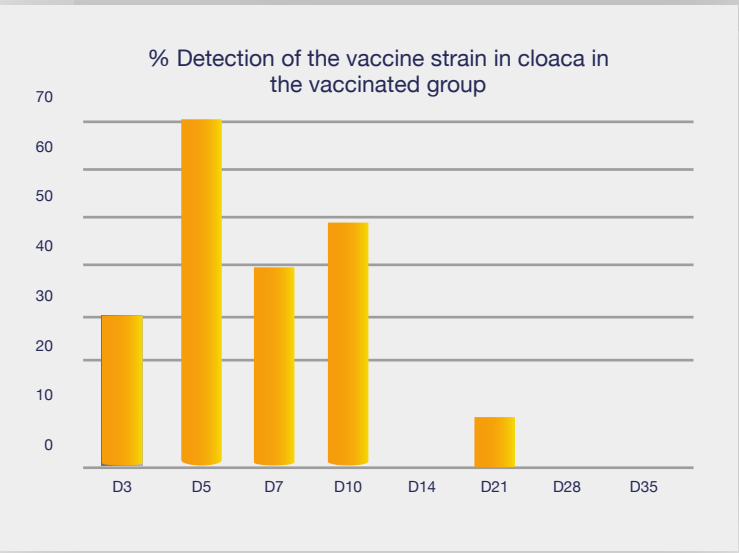
The results show significant differences between G1 (3 vaccines during rearing + 1 in laying) and the control group

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)

Primun Salmonella T ▸ PROTECTION FOR **BROILERS** TOO



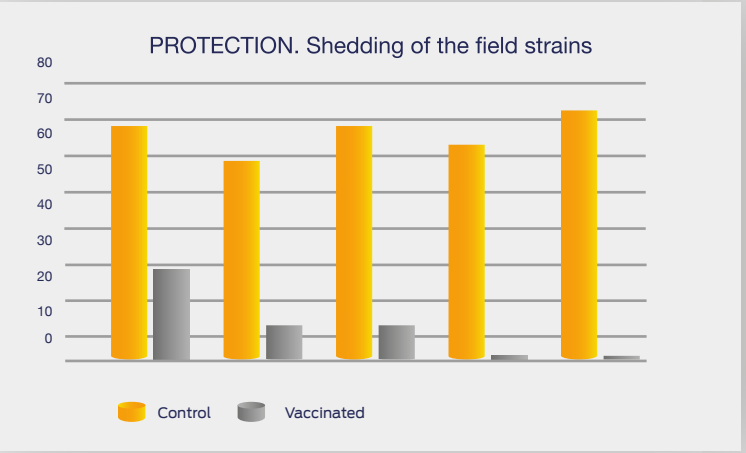
- Live vaccine against ***Salmonella Typhimurium***
- Authorised for long cycle birds and broilers
- Differential diagnosis of the vaccine strain via PCR

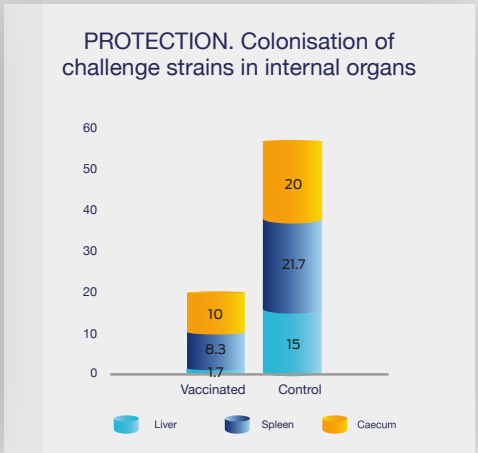


The following results were obtained:

- 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

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





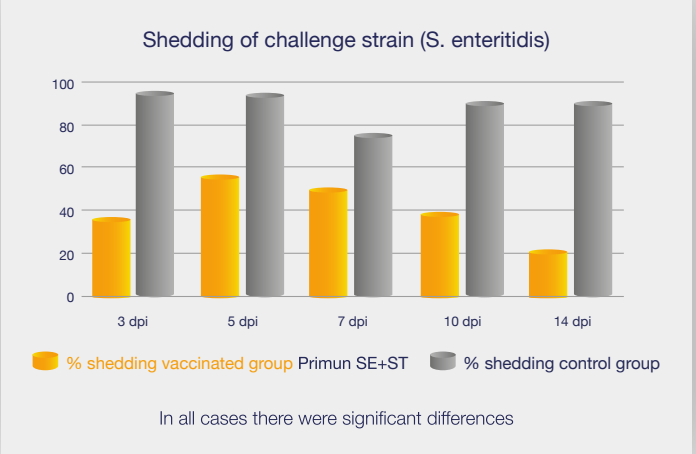
Studies presented at the XVI European Poultry Conference (Valencia, Spain, June 2024)



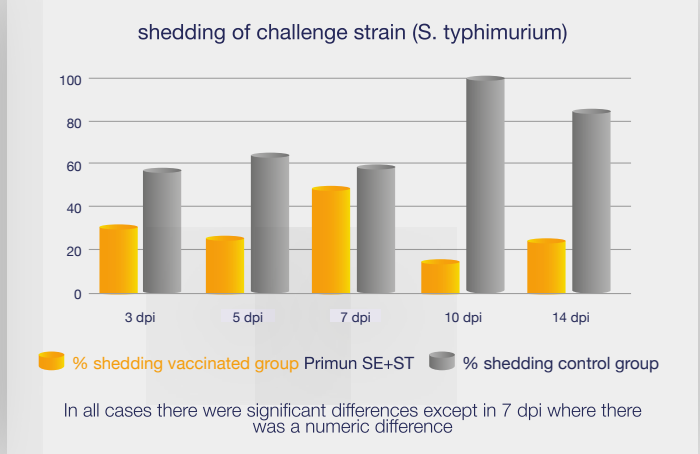
Primun *Salmonella E* and **Primun** *Salmonella T*

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



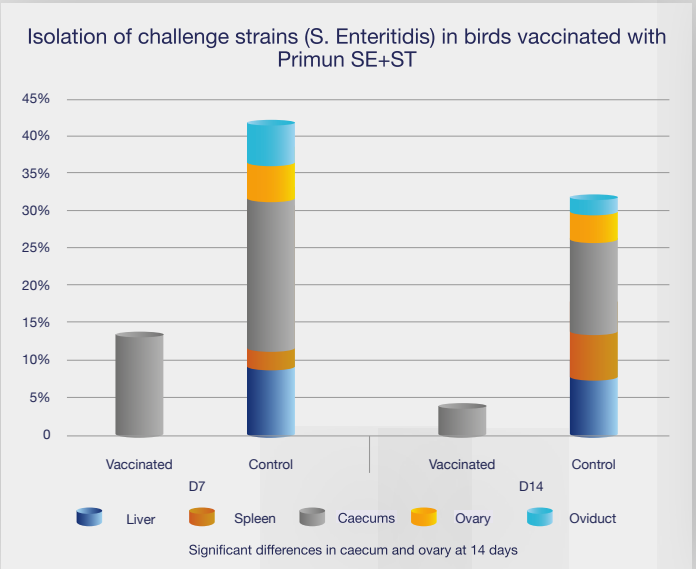
In all cases there were significant differences

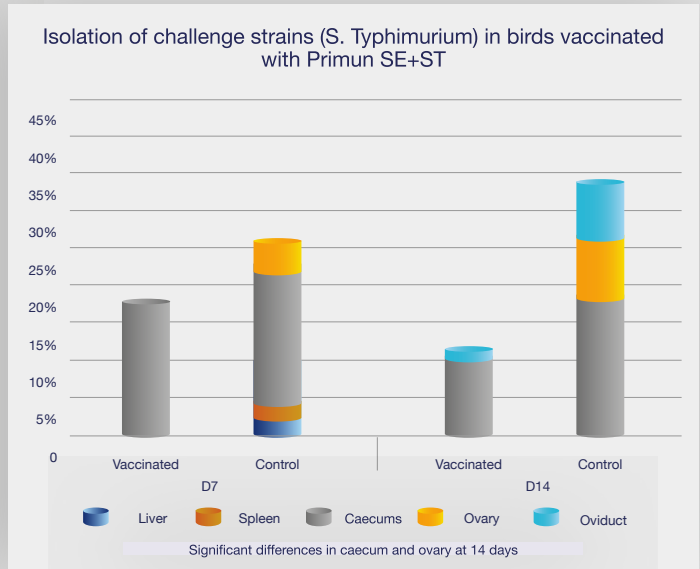


In all cases there were significant differences except in 7 dpi where there was a numeric difference

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





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**

CECADI
CALIER DIAGNOSTIC CENTER

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.

PCR DIAGNOSIS PRECISIÓN MOLECULAR

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

HOW DO I SIGN UP?



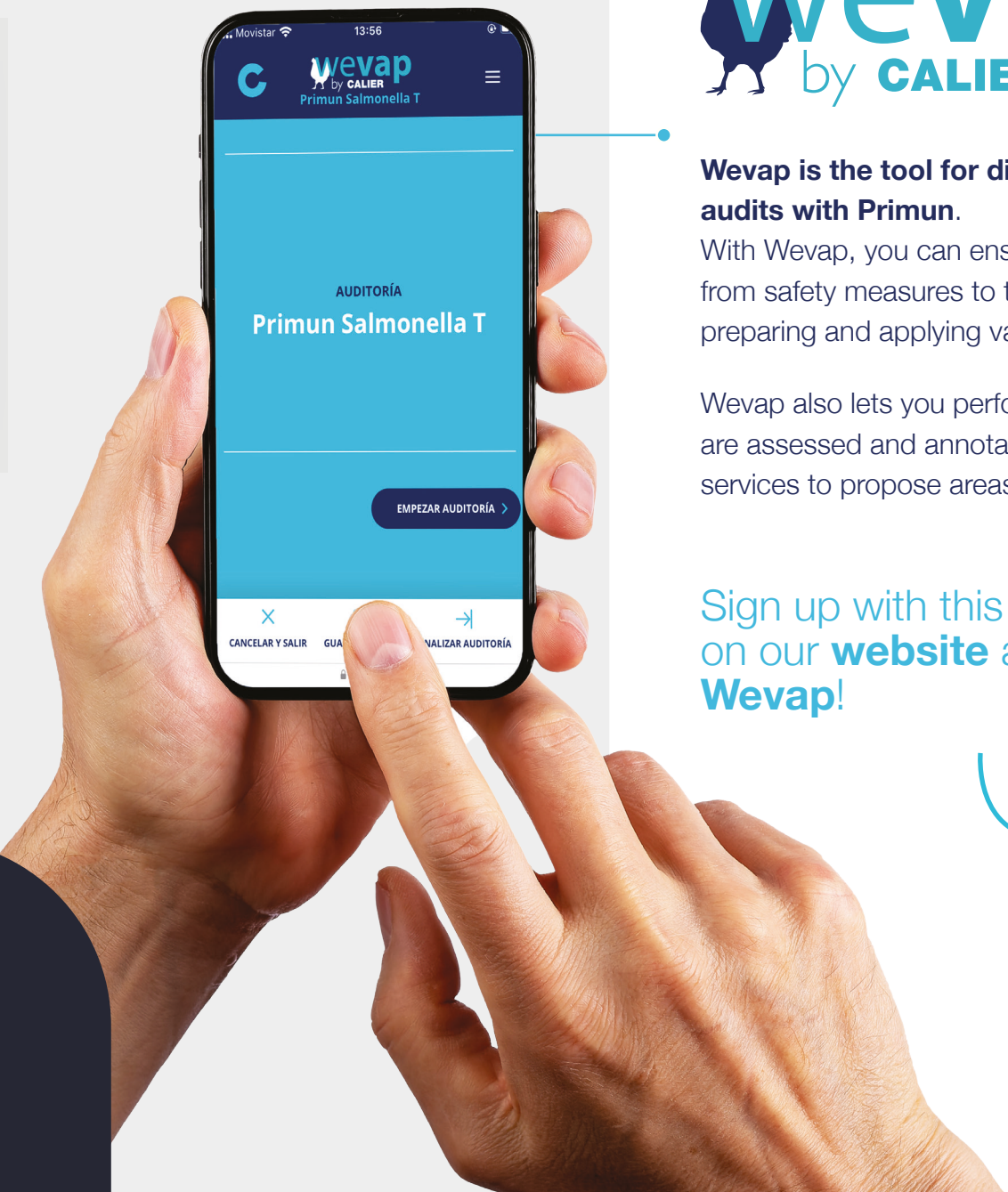
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Sign up
Click on **“Sign up”** in the Diagnostic Center. You can **set up your profile** and start to make the most of the online platform where you can **request and consult all your tests digitally.**

wevap by CALIER



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

MANUFACTURER OF AUTOVACCINES

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.



CALIER