

Oral Gel Administration for *Lawsonia* and *Salmonella* Vaccines Helps Producers Save Time and Labor

Gel Administration of Enterisol[®] Vaccines

Gel administration offers a convenient, fast, stress-free option to orally administer Enterisol[®] Ileitis and Enterisol Salmonella T/C[®].

BENEFITS



Labor-Saving



Stress-Free
for Pigs & People



Management of the
Med-Free Window

The Vaccines

- **Enterisol Ileitis[®]**: Oral, avirulent live vaccine against *Lawsonia intracellularis*.
 - *Over 20 years of success and over a billion pigs vaccinated worldwide, confers protection with a single oral dose.*
- **Enterisol Salmonella T/C[®]**: Oral, avirulent live vaccine against *Salmonella*.
 - *Only commercial vaccine to contain both Salmonella Typhimurium and Choleraesuis serotypes and to show protection against monophasic Salmonella.*

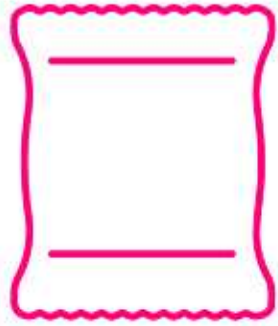


The Gel

- Underline[®] Gel: contains color and taste to attract pigs, also neutralizes chlorine.



Three Basic Steps to Oral Vaccination by Gel



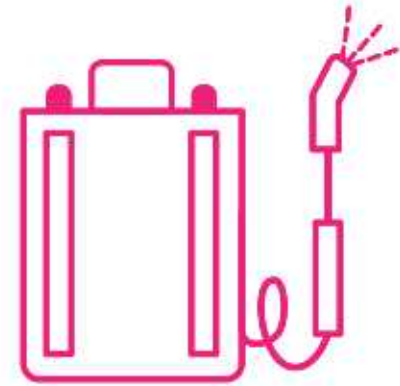
1

Prepare
the gel



2

Mix
in the vaccine



3

Vaccinate
by spraying the mixture on
farrowing crate mats or a
surface that allows pigs to
consume the gel

Enterisol® Vaccine in Gel Applied to Farrowing Crate Mat



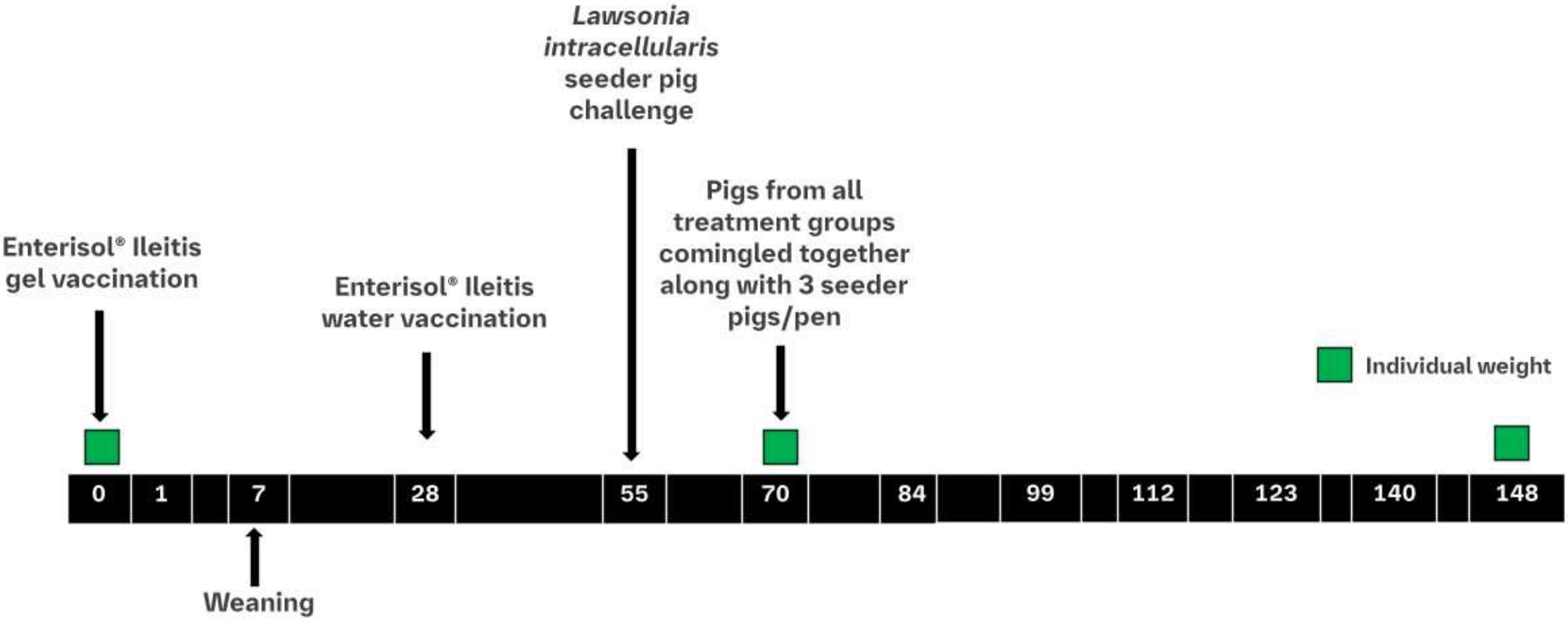
- Using the Doser backpack, possible to vaccinate 48 litters or approximately 576 pigs in three minutes.

Lawsonia Challenge Trial

Treatment	Treatment Description	Pigs/Trt
1	Non-vaccinated, Challenged Controls	540
2	Enterisol® Ileitis FF via gel	540
3	Enterisol® Ileitis FF via water	540
4	Enterisol® Ileitis FF + Enterisol Salmonella T/C® via gel	540

- Objective: Compare the efficacy of oral administration of Enterisol® Ileitis by gel and drinking water as measured by average daily gain (ADG) and mortality in a field commercial barn with experimental *Lawsonia* challenge.

Study Timeline



Results - ADG

	Treatment				
	Non-vaccinated, <i>Lawsonia</i> challenge control	Enterisol® Ileitis FF <u>gel</u>	Enterisol® Ileitis FF <u>water</u>	Enterisol® Ileitis FF + Enterisol Salmonella T/C® <u>gel</u>	P-value
ADG (commingling to final), lbs/day	1.82 ± 0.02 ^b	2.05 ± 0.02^a	2.02 ± 0.02^a	2.03 ± 0.02^a	<0.0001

- Both drinking water and gel administration were significantly superior to non-vaccinates.
- Drinking water and gel administered groups had very similar results.

Results - Mortality

	Treatment			P-value	
	Non-vaccinated, <i>Lawsonia</i> challenge control	Enterisol® Ileitis FF <u>gel</u>	Enterisol® Ileitis FF <u>water</u>		Enterisol® Ileitis FF + Enterisol Salmonella T/C® <u>gel</u>
Removal and mortality, %	7.45 ± 0.92 ^b	4.31 ± 0.95^a	4.11 ± 0.95^a	3.17 ± 0.93^a	0.007

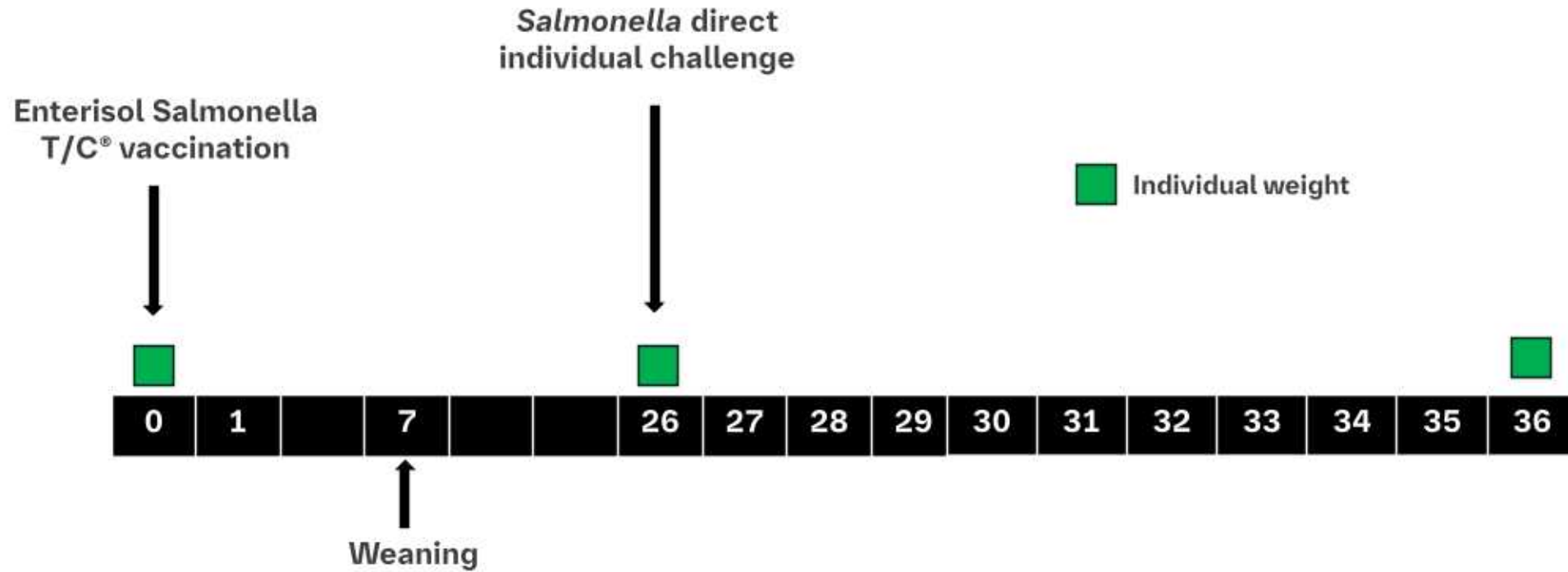
- Both drinking water and gel administration were significantly superior to non-vaccinates.
- Drinking water and gel administered groups had very similar results.

Salmonella Challenge Trial

Treatment	Treatment Description	Pigs/Trt
1	Non-vaccinated, <i>Salmonella</i> challenged control	24
2	Enterisol Salmonella T/C® NF Underline® gel administration	24
3	Enterisol Salmonella T/C® NF oral drench	24

- Objective: Compare the efficacy of oral administration of Enterisol Salmonella T/C® by gel and oral drench as measured by ADG and colon lesions in pigs experimentally challenged with *Salmonella* Typhimurium.

Study Timeline



Results – Intestinal Lesions

	Treatment			P-value
	Non-vaccinated, <i>Salmonella</i> challenge control	Enterisol Salmonella T/C® <u>gel</u>	Enterisol Salmonella T/C® <u>oral drench</u>	
Colon Lesions	0.40±0.14 ^b	0.09±0.09^a	0.04±0.04^a	<0.0001

- Both oral drench and gel administration were significantly superior to non-vaccinates.
- Oral drench and gel administered groups had very similar results.

Results - ADG

	Treatment			
	Non-vaccinated, <i>Salmonella</i> challenge control	Enterisol Salmonella T/C® <u>gel</u>	Enterisol Salmonella T/C® <u>oral drench</u>	P-value
ADG (lbs/day)	0.27 ^a	0.82^b	0.83^b	<0.0001

- Both oral drench and gel administration were significantly superior to non-vaccinates.
- Oral drench and gel administered groups had very similar results.

Conclusions – Gel Administration

- New, convenient, fast, stress-free option to orally administer Enterisol[®] Ileitis and Enterisol Salmonella T/C[®].
- Provides the same level of efficacy as traditional drinking water and oral drench.
- Allows for vaccination in the sow farm, facilitating earlier vaccination and management of the med-free window.

Thank you! Questions?

ENTERISOL® and ENTERISOL SALMONELLAT/C® are registered trademarks of Boehringer Ingelheim Vetmedica GmbH, used under license. RELOAD PACK® is a registered trademark of Boehringer Ingelheim Animal Health USA Inc. All other trademarks are the property of their respective owner. ©2024 Boehringer Ingelheim Animal Health USA Inc., Duluth, GA. All Rights Reserved. US-POR-0027-2024

