



FerAppease[®]

Maternal Swine Appeasing Substance

Scientific evidence of the benefits of FerAppease®

➤ *The effect of the use MSAS has been evaluated in several independent studies. The body of the literature suggests the following positive effects:*

➤ *Weaned pigs:*

- *Stimulation of feeding behaviors*
- *Reduced fighting*
- *Increasing in average daily gain (AVG) and feed efficiency*

➤ *Sows at comingling:*

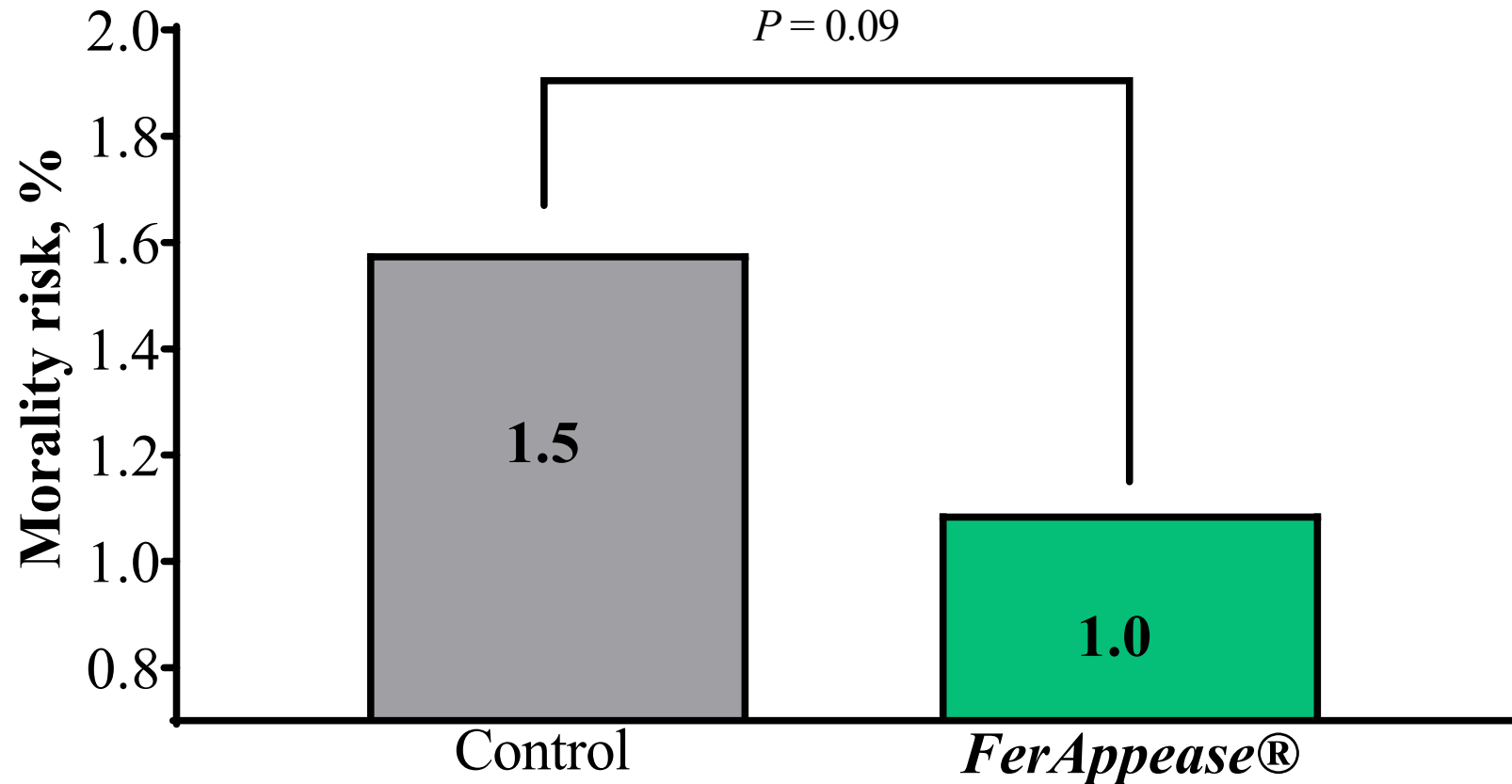
- *Aggressiveness drastically reduced*
 - *Lower number of aggression events*
 - *Total and average duration of aggression is reduced*

Evaluation of a single administration of *FerAppease*[®] at nursery arrival on weight gain and mortality

	Treatment	
	Control	<i>FerAppease</i>
Enrolled piglets	3,000	3,000
Piglets per pen	60	60
Number of pens	50	50

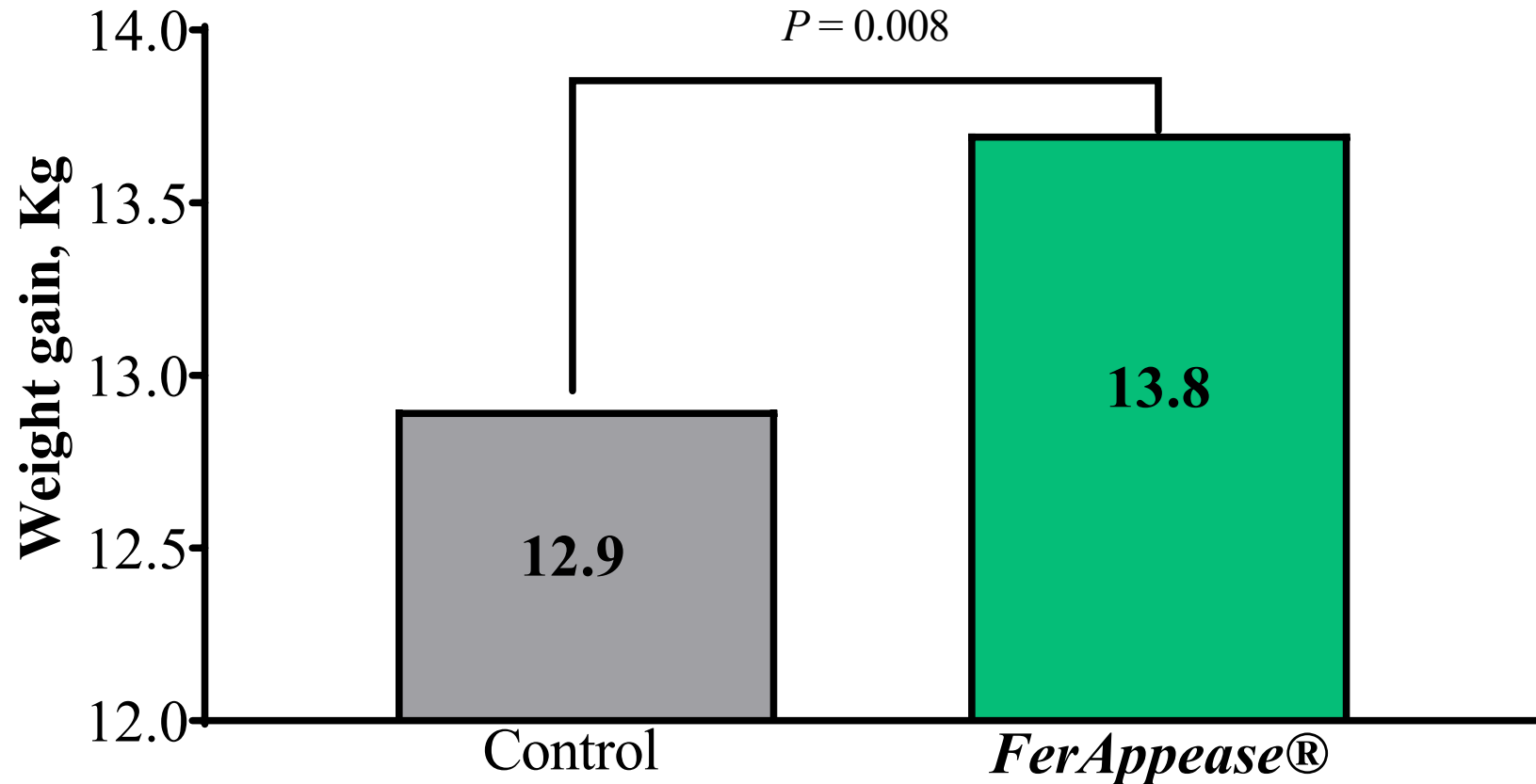
Effect of FerAppease[®] administration at nursery arrival on weight gain

- *3 weeks old pigs received FerAppease[®] at nursery arrival*
- *Mortality rate tended to be decreased in the FerAppease group*



Effect of FerAppease[®] administration at nursery arrival on weight gain

- *Weaned piglets received FerAppease[®] at nursery arrival*
- *Nursery weight gain was significantly improved with FerAppease administration*



Effect of FerAppease[®] administration at nursery arrival on weight gain

➤ Conclusions

- There was a strong statistical tendency for a decreased mortality risk for the FerAppease treated group compared to controls*
- Piglets in the FerAppease treated group gained significantly more weight during the nursery period compared to controls*

Synthetic maternal pheromone stimulates feeding behavior and weight gain in weaned pigs

Synthetic maternal pheromone stimulates feeding behavior and weight gain in weaned pigs¹

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Synthetic maternal pheromone stimulates feeding behavior and weight gain in weaned pigs

Table 1. Effects of application of a putative synthetic maternal pheromone or a control odor on weaned pig behavior^a

Measure	Treatments			SE ^b	P-value ^b	P-value contrast ^b
	Control	Pheromone feeder	Pheromone snout			
No. of pigs	42	42	42	—	—	—
No. of replicates	14	14	14	—	—	—
Scan sample, % of observations						
Feeding (head in feeder)	1.33 ^y	3.06 ^z	2.54 ^z	0.29	0.0007	0.0003
Drinking (mouth on waterer)	0.67 ^y	0.30 ^z	0.27 ^z	0.11	0.02	0.007
Lying close to feeder	18.2	9.21	9.25	4.06	0.21	0.08
Lying far from feeder	65.1	69.9	71.8	4.66	0.58	0.32
Lying (total)	83.2 ^y	79.1 ^z	81.0 ^{yz}	1.32	0.10	0.06
Stand and walk (active)	12.9 ^y	16.1 ^z	13.0 ^z	0.92	0.03	0.14
Agonistic behaviors	1.52 ^y	0.82 ^z	0.96 ^{yz}	0.24	0.11	0.04

^aTable values are raw data and SE of raw data. Analyses were performed on transformed data and the P-values represent those for the transformed data.

^bP-value refers to the treatment effect while the P-value contrast refers to a linear contrast comparing control with the combined pheromone treatments.

^{y,z}Means with a different superscript differed $P < 0.05$.

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Synthetic maternal pheromone stimulates feeding behavior and weight gain in weaned pigs

Table 2. Effects of application of a putative synthetic maternal pheromone or a control odor on weaned pig weight performance

Measure	Treatments			SE	P-value	P-value contrast ^a
	Control	Pheromone Feeder	Pheromone Snout			
Number pigs	48	48	48	—	—	—
Number replicates	16	16	16	—	—	—
Wean weight, kg	6.07 ^y	5.07 ^z	5.71 ^{yz}	0.13	0.09	0.03
End of nursery, kg	10.6 ^y	11.6 ^z	12.0 ^z	0.35	0.02	0.01
ADG, kg/d						
0 to 7 d	0.09	0.12	0.11	0.015	0.36	0.16
7 to 14 d	0.16	0.15	0.18	0.015	0.36	0.95
14 to 21 d	0.29 ^y	0.32 ^{yz}	0.36 ^z	0.02	0.098	0.08
21 to 28 d	0.30	0.36	0.40	0.03	0.42	0.24
0 to 28 d	0.198 ^y	0.236 ^z	0.253 ^z	0.01	0.004	0.001
Feed intake, kg/d						
0 to 7 d	0.17	0.19	0.18	0.01	0.61	0.38
7 to 14 d	0.45	0.45	0.46	0.017	0.90	0.78
14 to 21 d	0.63	0.63	0.64	0.028	0.95	0.80
21 to 28 d	0.95	0.98	1.00	0.03	0.12	0.07
0 to 28 d	0.52	0.51	0.54	0.01	0.45	0.25
Feed:gain ratio ^b						
0 to 7 d	0.24	1.98	0.39	1.40	0.61	0.58
7 to 14 d	7.66	1.57	4.91	1.57	0.37	0.83
14 to 21 d	2.51	2.44	2.02	0.25	0.26	0.25
21 to 28 d	3.75 ^y	3.25 ^{yz}	2.47 ^z	0.42	0.11	0.09
0 to 28 d	2.65 ^y	2.22 ^z	1.95 ^z	0.13	0.005	0.002

Scientific evidence of the benefits of FerAppease®

Study conducted in comingled sows:

- *Pregnant sows treated in individual Stalls*



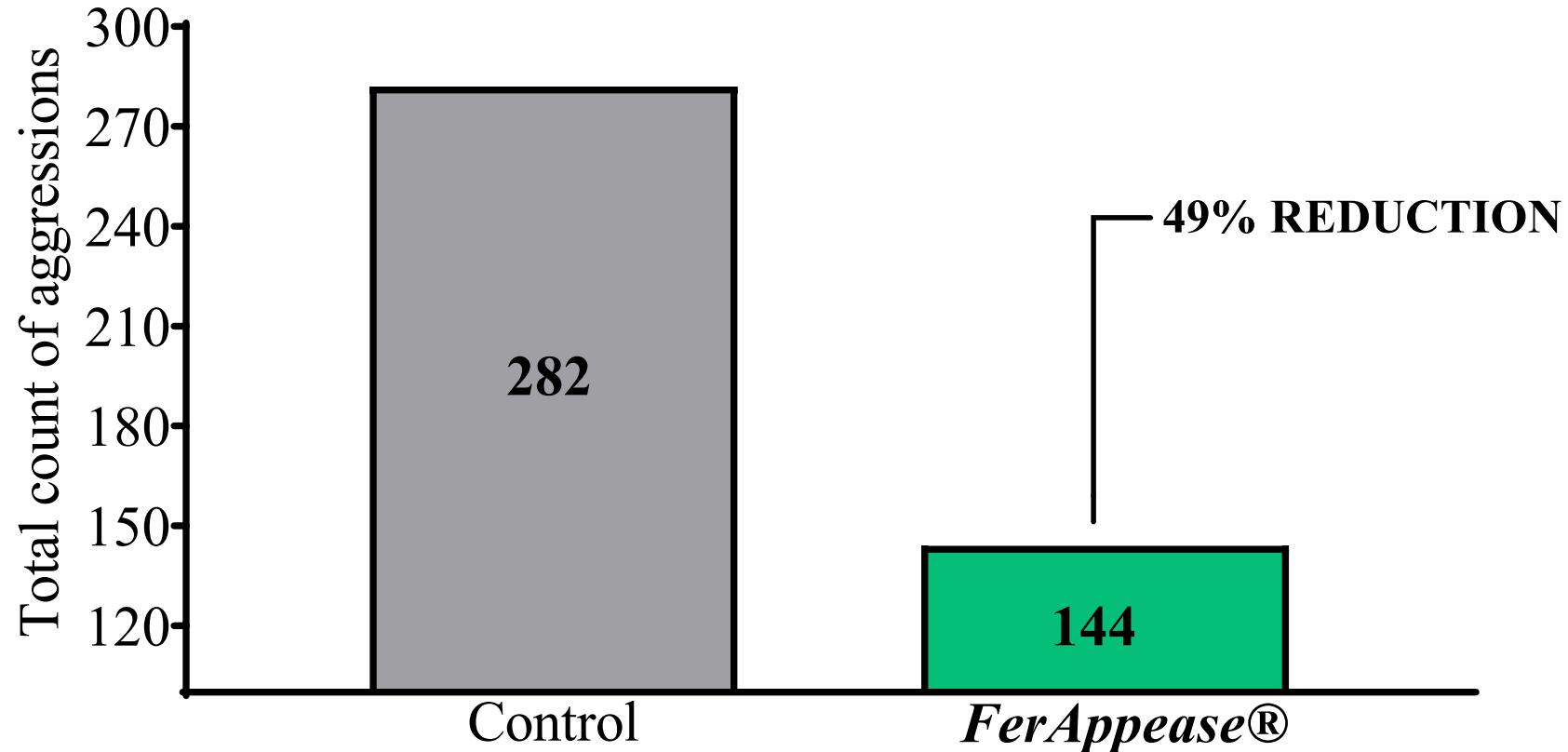
- *Immediately moved to collective pens*



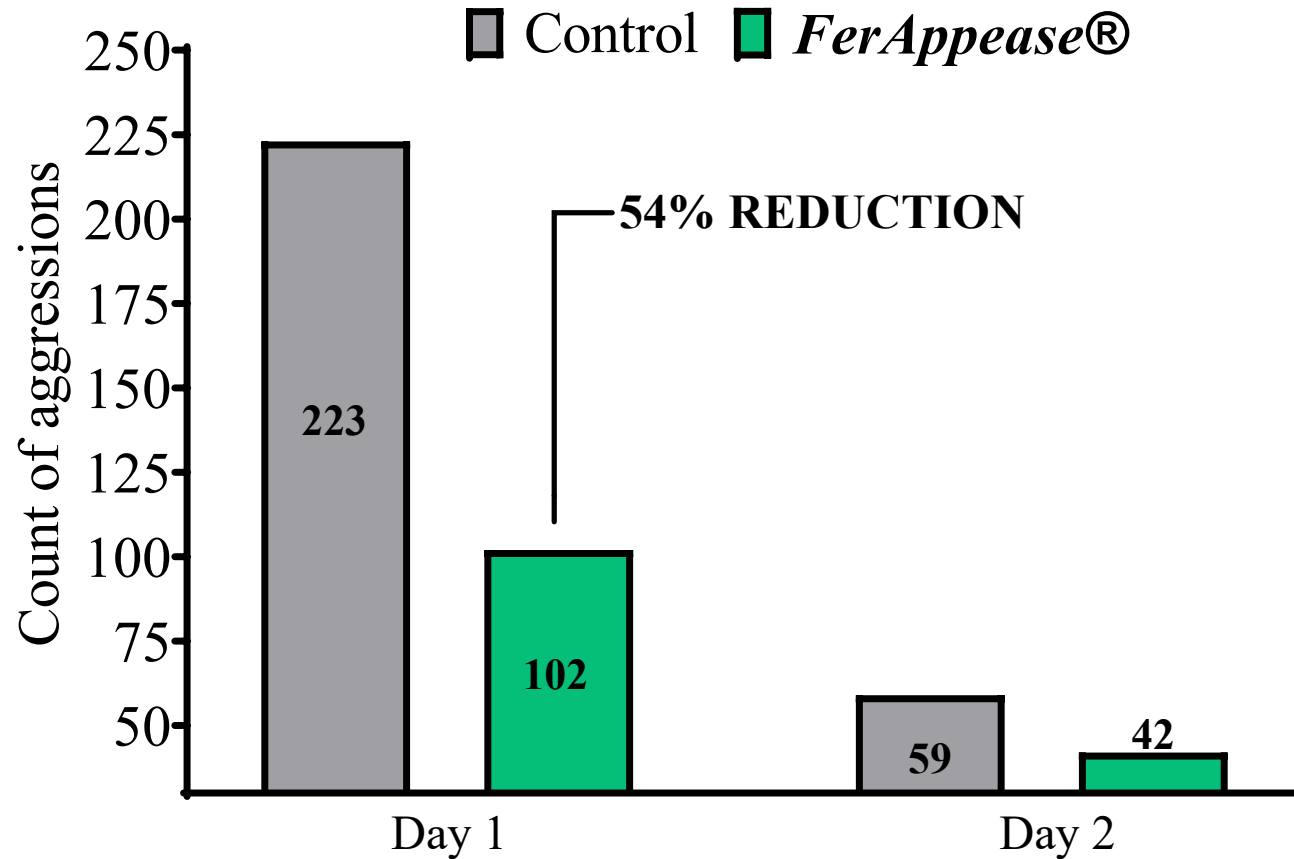
- *Blue = Controls*
- *Orange = FerAppease®*

- *Treatments separated by pen*
- *Cameras installed to analyze agonistic behaviors*

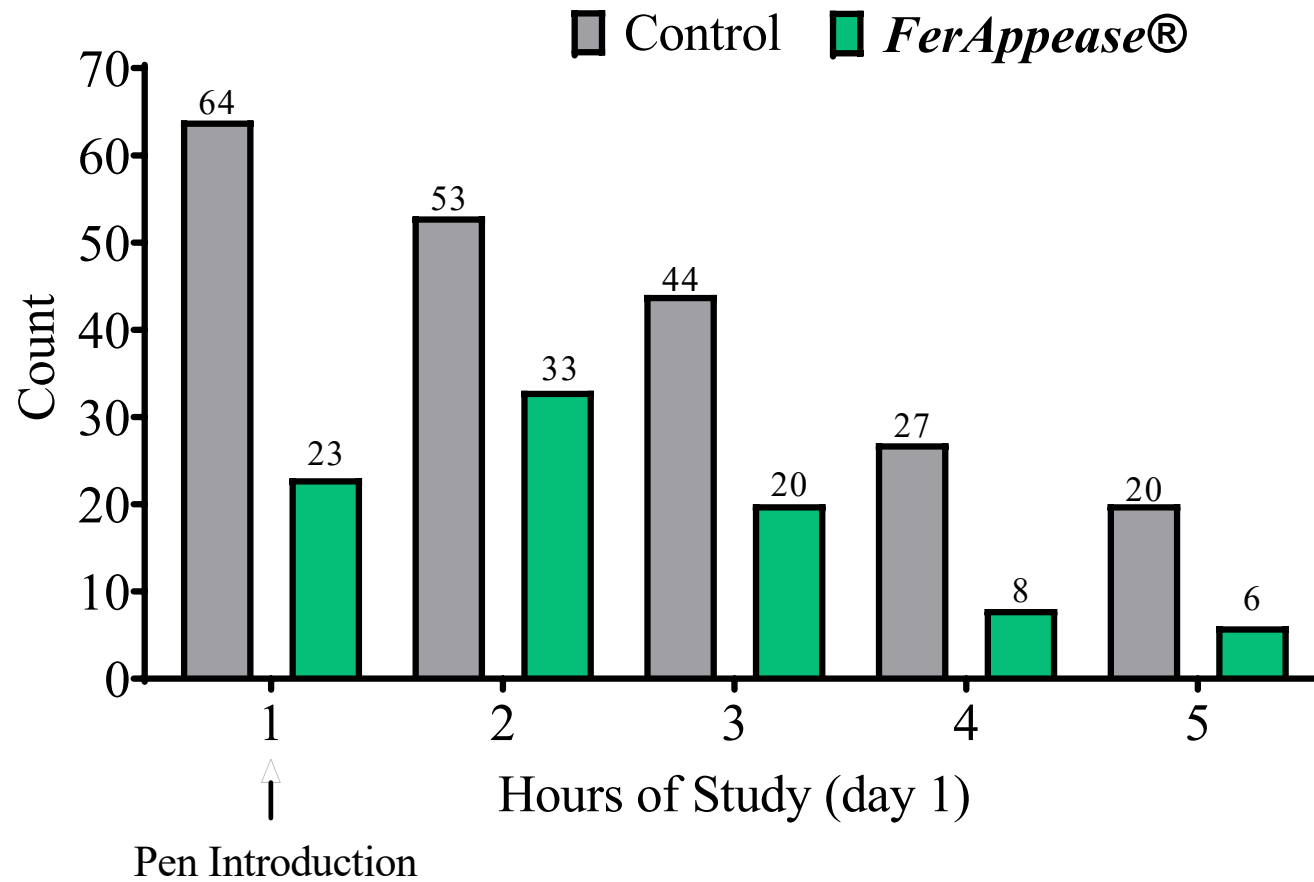
FerAppease[®] reduced the total count of aggressions in the first 2 days after commingling



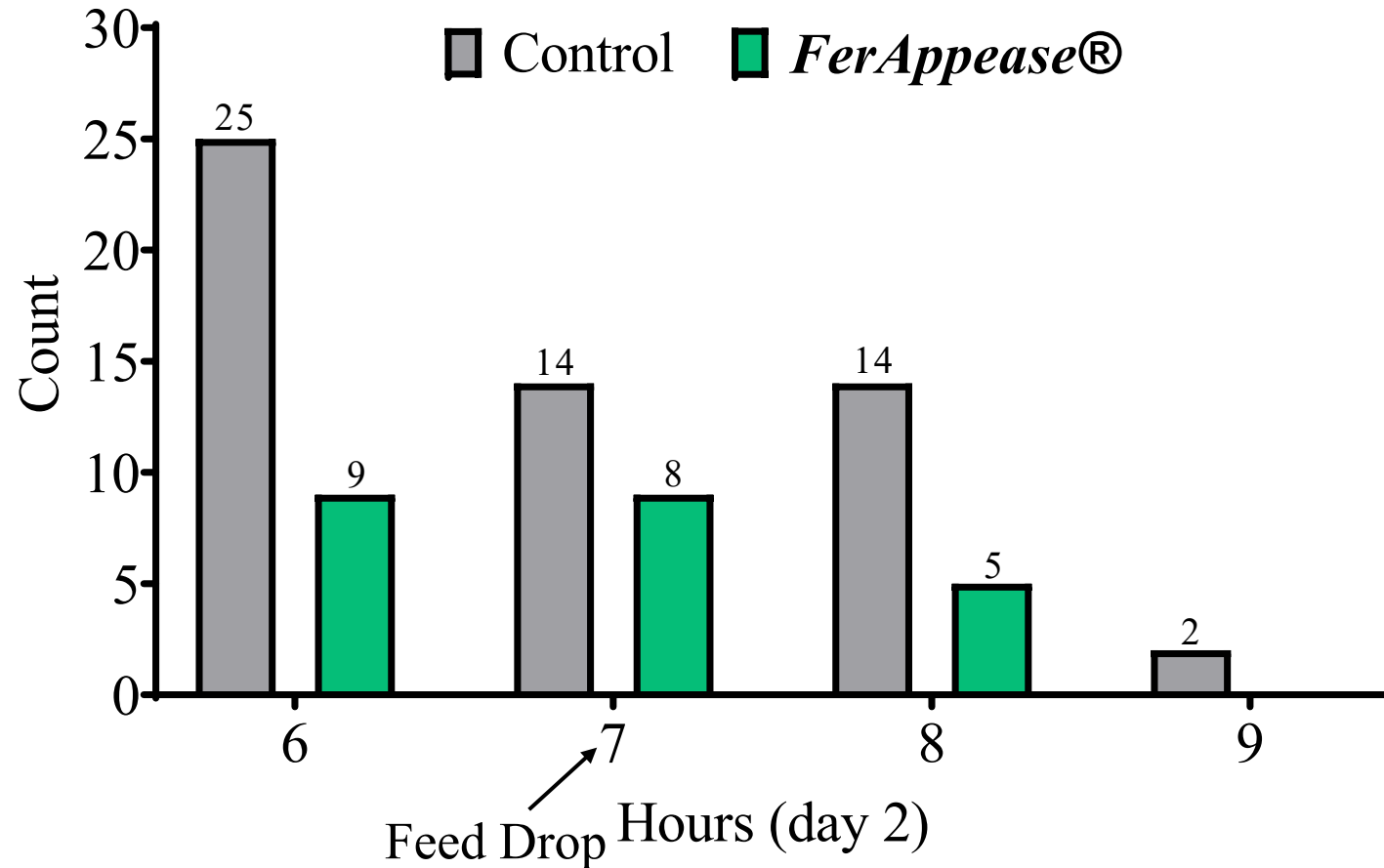
FerAppease® reduced the total count of aggressions in the first 2 days after commingling



Effect of FerAppease® in reducing aggressiveness within hours after topical application

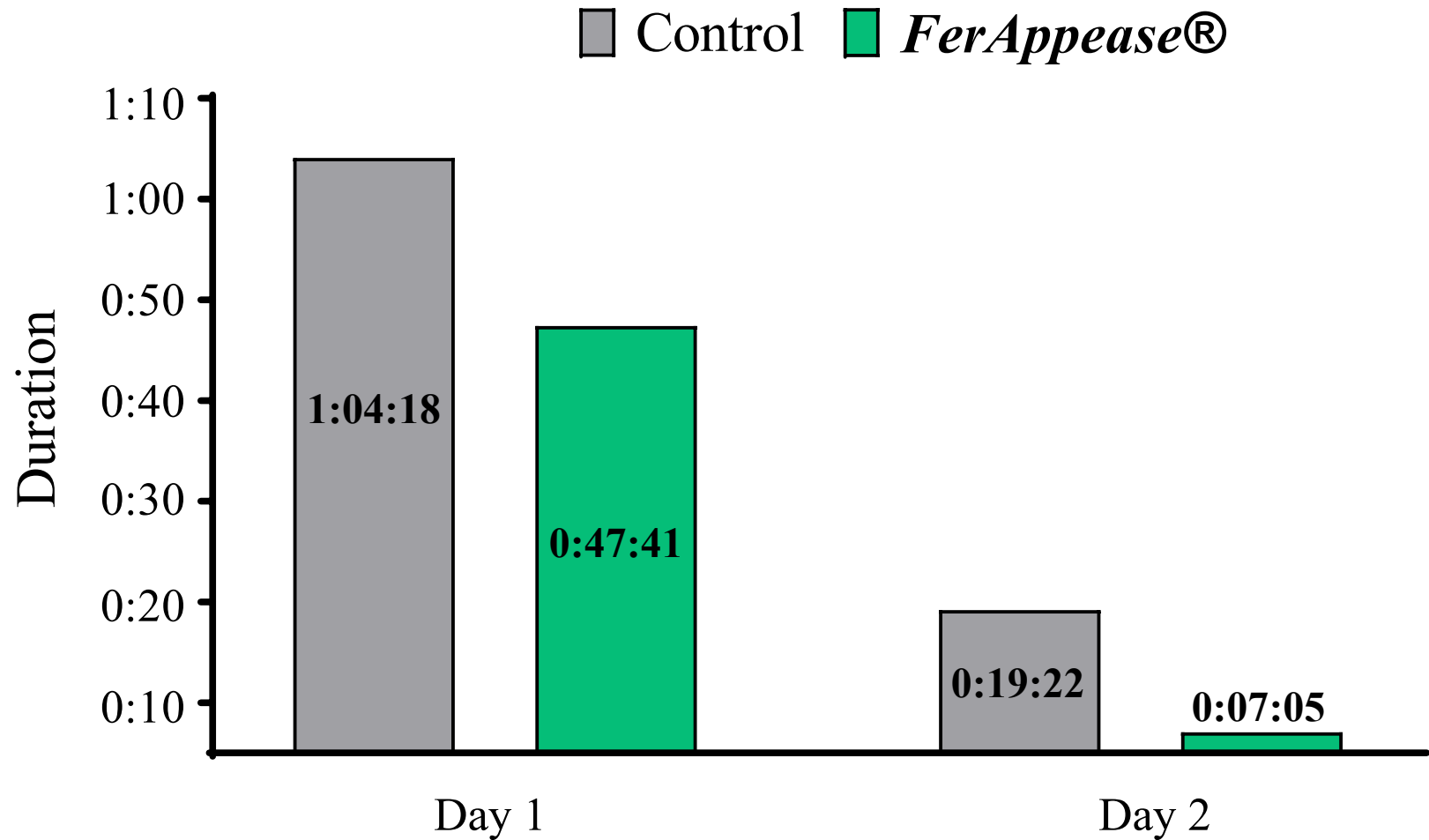


Effect of *FerAppease*[®] in reducing aggressiveness in the second day after application

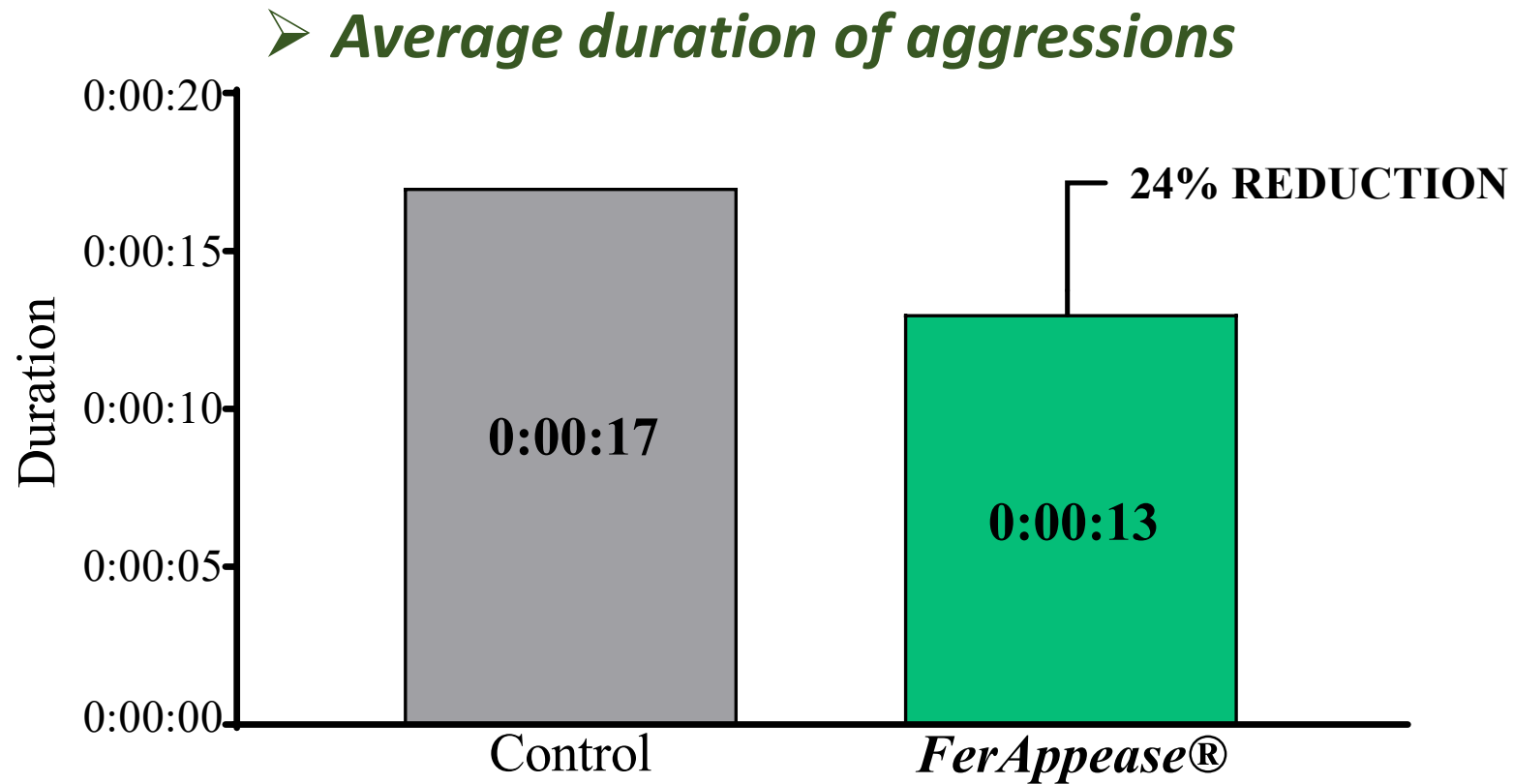


Effect of FerAppease® in reducing aggressiveness in commingled sows

➤ *FerAppease®* reduced the total duration of aggressions



Effect of FerAppease® in reducing aggressiveness in commingled sows



Final considerations



FerAppease[®]

Maternal Swine Appeasing Substance

- *Stimulation of feeding behaviors*
- *Reduced fighting*
- *Increase in performance*
 - *Higher body weight gains due to improved feed efficiency*

- *Aggressiveness drastically reduced*
- *Lower number of aggression events*
- *Total and average duration of aggression is reduced*




FERA

Diagnostics and Biologicals



For technical assistance please contact Fera Diagnostics and Biologicals Corp. at 979-213-6470, inquiry@feraah.com

- Manufactured in the U.S.A under cGMP and CFR Part 11 requirements 
- Manufactured For: Fera Diagnostics and Biologicals Corp. College Station, Texas, United States.