

CIVTEST[®] SUI5 PRRS E/S PLUS

Indirect ELISA for the detection and quantification of specific antibodies against the European strains of porcine reproductive and respiratory syndrome virus (PRRSV) using oral fluid or serum samples

Stress-free diagnosis



Stress-free diagnosis



Objective

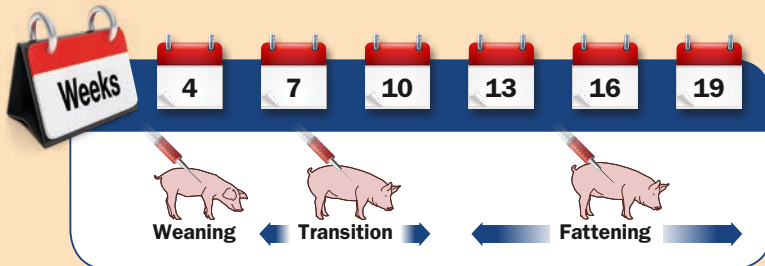
Monitoring of growing animals using oral fluid sample. Comparison with serum.

Experimental design

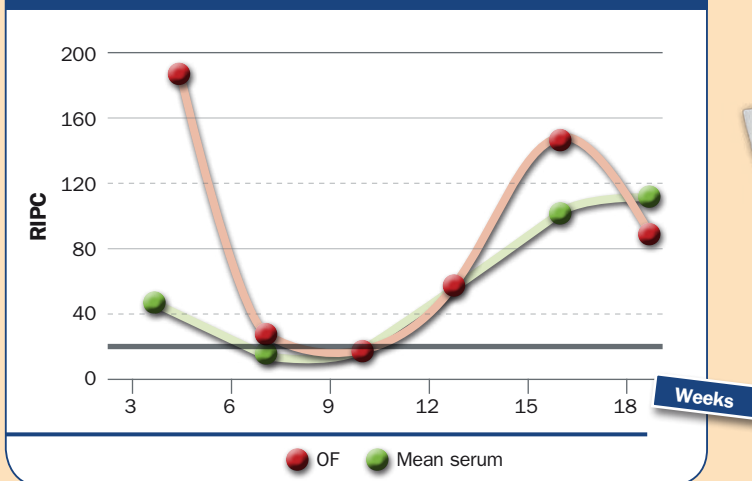
Animals in different phases of growth (8 animals per group) were bled and some oral fluid samples (1 rope/group) were obtained.

Results

- ✓ Good correlation of oral fluid with serum.
- ✓ Oral fluid is a better option than serum for monitoring growing animals.



Serum Profile: Serum vs. OF



CIVTEST[®] SUIIS ORAL FLUIDS

Oral fluid sample extraction kit

CIVTEST[®] SUI5 PRRS E/S PLUS



serum



(+ overnight incubation)
oral fluid

Filter: 450 nm (TMB)

ELISA type: Indirect for the detection and quantification of porcine antibodies against the European strains of porcine reproductive and respiratory syndrome virus.

Objective

Serum correlation and reference technique (serum neutralisation).

Experimental design

Thirty 3-week-old pigs from a PRRS-negative farm were vaccinated on D0 and D21 with a live vaccine. Subsequently, on D42, they were infected with an American strain of PRRS.

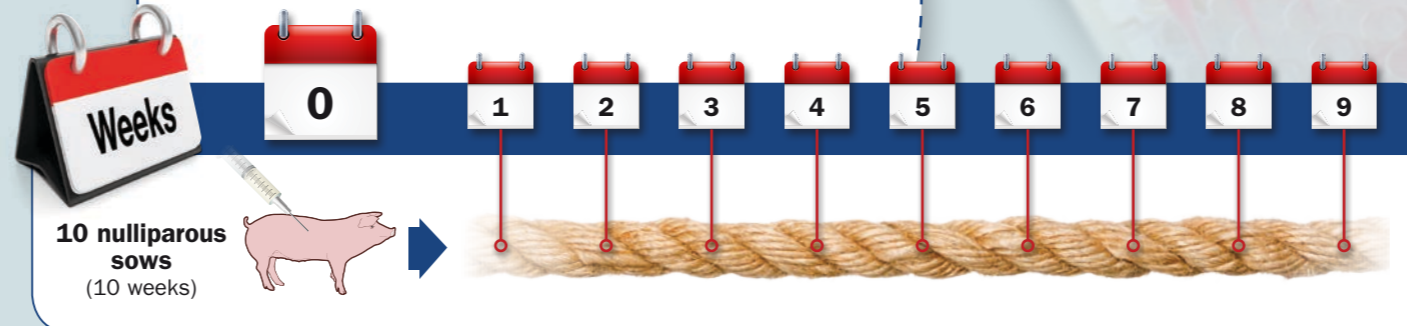
Stress-free diagnosis

Objective

Monitoring of infection using oral fluid samples. Comparison with serum.

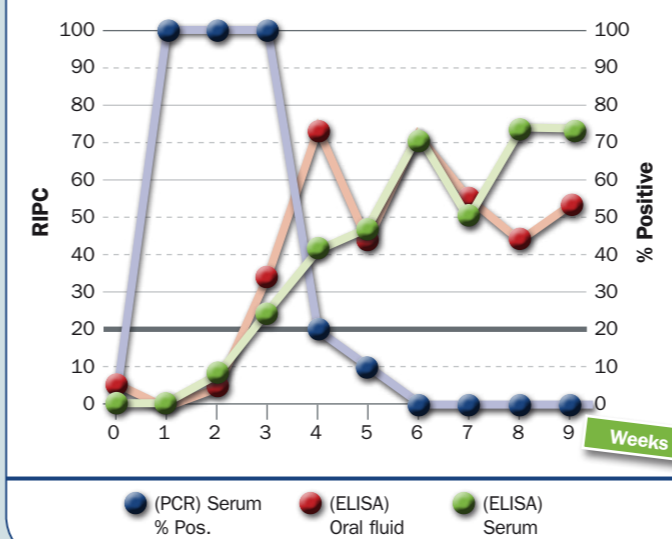
Experimental design 1

A group of 10 PRRS-negative nulliparous sows were infected with an infectious inoculum of PRRS, and serum and oral fluid samples (1 rope/pen) were then analysed weekly for 9 weeks. CIVTEST[®] SUI5 PRRS E/S PLUS and PCR.



Weeks	PRRS E/S		
	(PCR) Serum % Pos.	(ELISA) Oral fluid	(ELISA) Serum
0	0%	5.46	-1.49
1	100%	-1.4	-1.38
2	100%	4.07	8.64
3	100%	32.84	24.32
4	20%	73.09	41.75
5	10%	43.34	46.56
6	0%	68.98	70.47
7	0%	55.5	50.96
8	0%	43.94	72.67
9	0%	54.17	72.00

Serum vs. OF



CIVTEST[®]

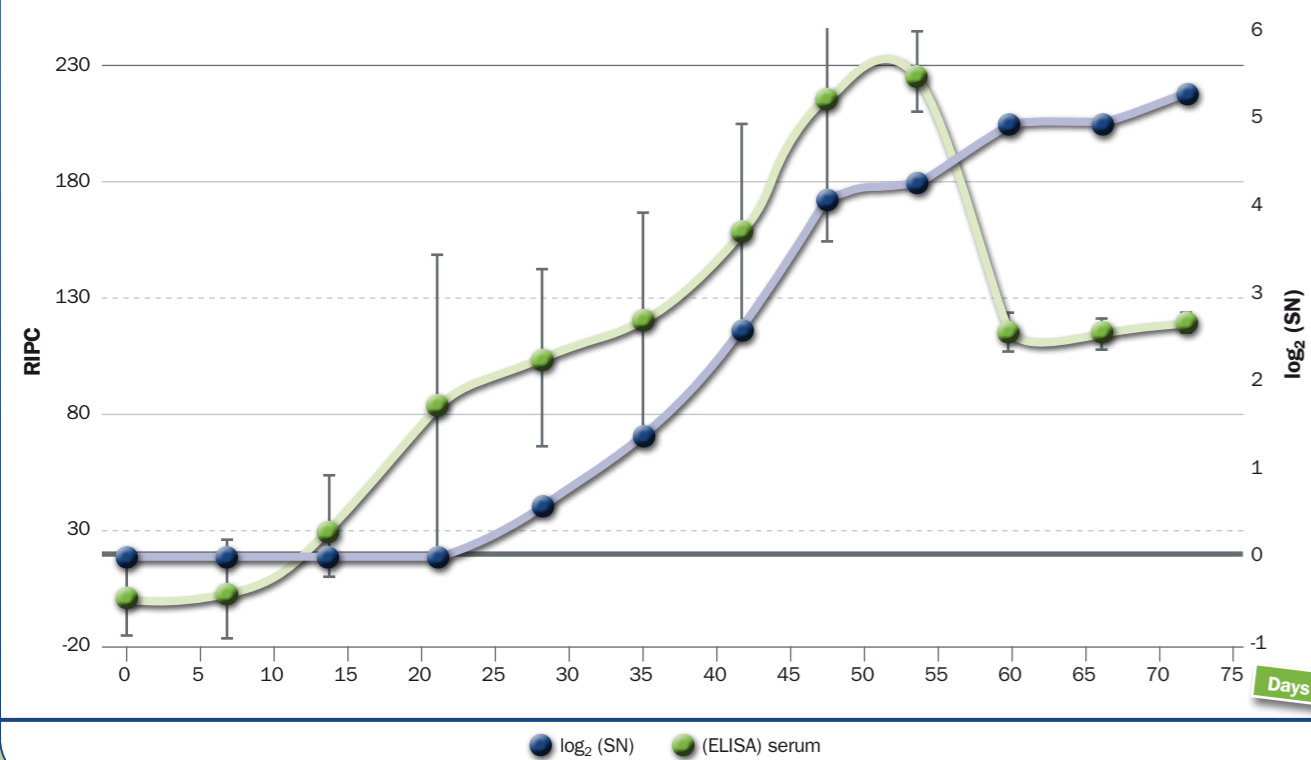
Experimental design 2

10 batches (10 animals/batch), PRRS-negative, were infected with an infectious inoculum of PRRS, and an oral fluid sample (1 rope/batch) was then obtained each week for 8 weeks. In weeks 3 and 7, all the animals were bled.

Results

- ✓ Excellent correlation of oral fluid with serum.
- ✓ Greater sensitivity in oral fluid than in serum.
- ✓ Good post-infection detection with oral fluid – excellent option for monitoring pig herds.

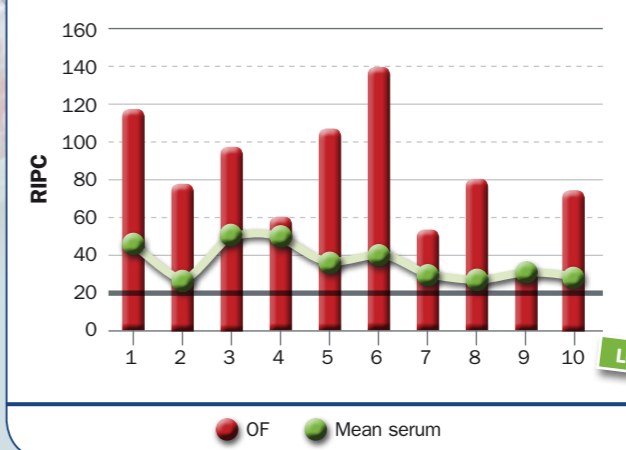
CIVTEST[®] SUI5 PRRS E/S PLUS vs. Serum Neutralisation



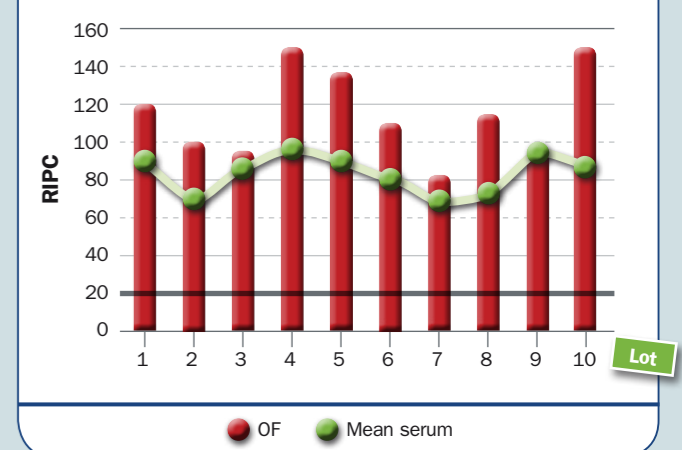
Results

- ✓ Excellent correlation with serum neutralisation (Indicative of protection).

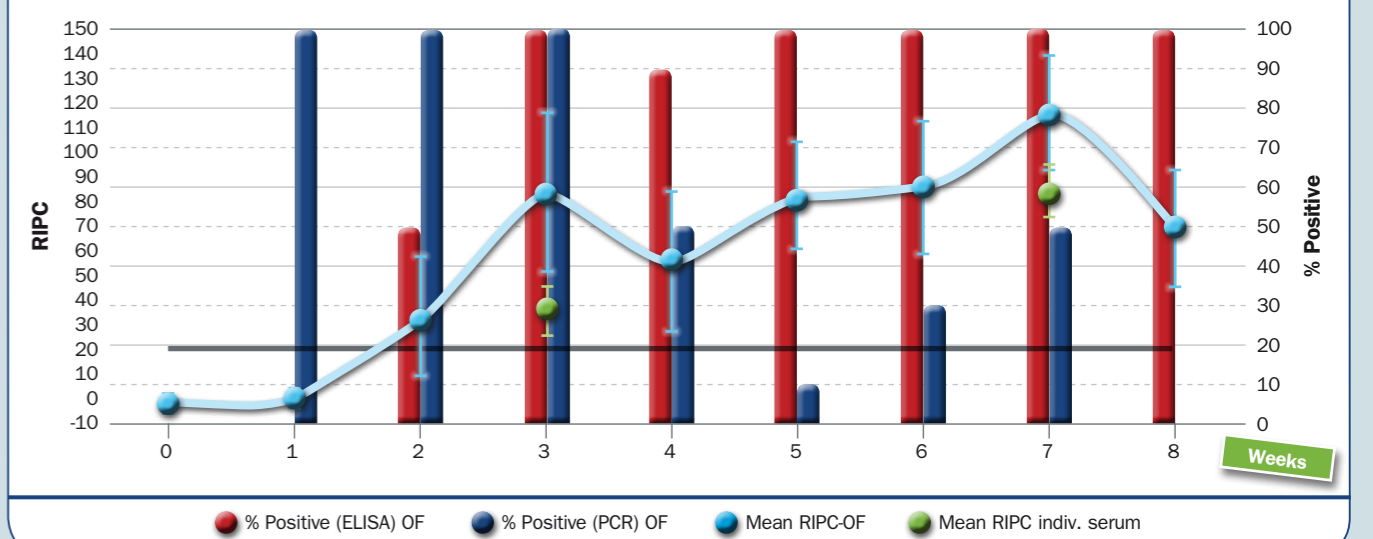
Week 3 post-infection



Week 7 post-infection



Post-infection follow-up. Serum vs. OF



CIVTEST[®] SUI5 PRRS E/S PLUS

provides quantitative information
and is proven to be of great use in monitoring
vaccinated and/or infected farms



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