Acuvet ELISA pig Haptoglobin

ACUTE PHASE PROTEINS

Rev. 05/19

Acute phase proteins (APP) are blood proteins which increase in concentration following tissue damage, infection, or stress, and can be used to detect the presence and monitor the progression of inflammatory conditions. APP are considered valuable biomarkers in the assessment of animal health and welfare. Haptoglobin is one of the main APP in pigs. Its concentration in healthy animals is lower than 1-1.5 mg/mL and can increase up to 4-6 mg/mL in acute conditions. The main function of haptoglobin is to bind to hemoglobin released at the lesion site, and the complex formed is then cleared from circulation. The binding to hemoglobin may affect the quantification of haptoglobin in hemolysed samples with some assays, however our assay is not affected by hemolysis.

Enzimatic immunoassay for the quantification of haptoglobin in pig serum or plasma

Validated method- species-specific-Traceable to International Standard
Not affected by hemolysis

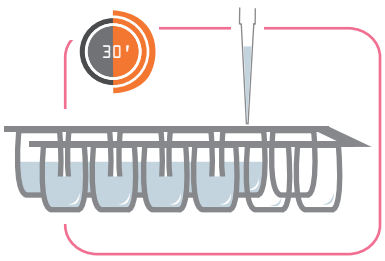
Type of method	Sandwich ELISA. Polyclonal antibodies. Pig specific.
Format	8 wells breakable strips. Two formats: 96 and 192 test.
Reading	Abs 450 nm
Standard	Liquid. Standarised to the Reference Serum for Pig Acute Phase Proteins (EU concerted Action QLK5-CT-199-0153)
Assay time	90 min
Matrix	Serum, plasma,*
	* Other matrix: request information

Parameter	Result
Measurement range	10-280 ng/mL
Limit of detection	2 ng/mL
Intra-assay CV	< 6%
Inter-assay CV	< 10%
Linearity	$R^2 > 0.99$
Recovery	94-114%
Methods comparison: Radial immunodifussion	R > 0.98 Analytical equivalence

Validation report available on request

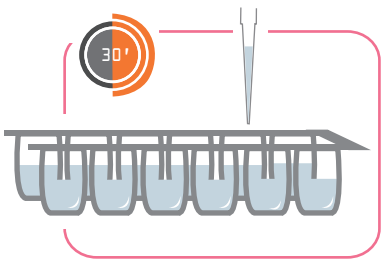
Assay procedure

Sample incubation



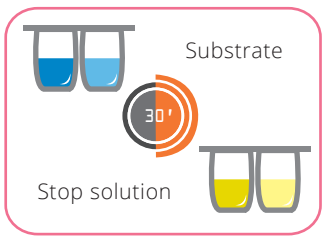
1-Dilute sample
2-Add sample
3-Incubate (30min)
4-Wash

Conjugate incubation



5-Add conjugate
6-Incubate (30 min)
7-Wash

Results



8-Add substrate
9-Incubate (30min)
10-Stop reaction
11-Read
12-Obtain value

Acuvet biotech

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