



## VetMAX African Swine Fever Virus Detection Kit

Real-time PCR kit—validated by the OIE\* and used for virus circulation monitoring in outbreak situations

The Applied Biosystems™ VetMAX™ African Swine Fever Virus (ASFV) Detection Kit has been used since 2015 during outbreaks in Europe, Asia, and Africa for clinical confirmation and detection of ASFV in domestic and wild pigs.

### Benefits

- Approved by the OIE for the detection of ASFV
- Validated by the European Union Reference Laboratory for ASFV (EURL, CISA-INIA, Spain)
- Detects all ASFV genotypes
- Allows users to test pools of up to 10 samples
- Contains a ready-to-use master mix for the detection of the ASFV target and the internal positive control (IPC)
- Delivers results in less than three hours



The VetMAX African Swine Fever Virus Detection Kit has successfully passed every step of the OIE procedure for the registration of diagnostic kits and has evidenced that it is fit-for-purpose for the detection of the African swine fever virus in blood, serum, and tissues of domestic and wild pigs (including wild boars).

Technology	Species	Samples	Test type
Real-time PCR of DNA • Duplex assay • Exogenous IPC	Domestic pig	Blood	Individual or pooled samples, up to 10
	Wild boar	Serum	Individual
		Tissues	

\* World Organisation for Animal Health (OIE).

## Diagnostic sensitivity

The VetMAX African Swine Fever Virus Detection Kit has been evaluated by EURL on 424 positive samples coming from field genotype II ASFV-infected areas within Asian and European countries.

424 positive samples tested	400 positives using UPL-PCR* 94%	384 positives using the VetMAX African Swine Fever Virus Detection Kit 91%
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Although the UPL-PCR test was able to detect the highest percentage of the infected animals, the kappa coefficient ( $\kappa$ ) statistics were used to evaluate the concordance between each test, and the result of 0.87%<sub>(95% CI)</sub> indicates **perfect agreement between the UPL reference method and the VetMAX African Swine Fever Virus Detection Kit.**

\* Universal probe library (UPL) real-time PCR (Fernandez et al, 2013).

## Inclusivity and exclusivity

PCR inclusivity has been evaluated on a panel of reference samples from CISA-INIA and CVI (Central Veterinary Institute, the Netherlands).

PCR exclusivity has been evaluated on various viruses, bacteria, and parasites.

	Strain	VetMAX African Swine Fever Virus Detection Kit
Inclusivity	38 reference samples from CISA-INIA	Detected
	20 reference samples from CVI	Detected
Exclusivity	Viruses (PCV1, PCV2, PPV, influenza, PRRSV, CSFV, BVDV, BHV1, porcine coronavirus, herpes virus type 1)	Not detected
	Bacteria ( <i>Mycoplasma hyopneumoniae</i> , <i>Mycoplasma hyosynoviae</i> , <i>Lawsonia</i> spp., <i>Brachyspira hyodysenteriae</i> , and 11 other species)	Not detected
	Parasites ( <i>Toxoplasma gondii</i> , <i>Neospora caninum</i> )	Not detected

The VetMAX African Swine Fever Virus Detection Kit **correctly detected all ASF strains from CISA-INIA and CVI panels** and didn't show cross-reaction with other pathogens.

## Real-time PCR workflow from sampling to result



## Ordering information

Product	Quantity	Cat. No.
VetMAX African Swine Fever Virus Detection Kit	100 tests	A28809
<b>Sample collection and sample preparation</b>		
GenoTube Livestock Swab	1 tube	9062010
MagMAX CORE Nucleic Acid Purification Kit	500 tests	A32700

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