**ViroReal® Kit**

**African Swine Fever Virus**

---

**Kit contents:**
- Detection assay for ASFV
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive control for ASFV
- Water

**Background:** African swine fever virus (ASFV) is the only member of the *Asfarviridae* family and is a large, double-stranded DNA virus which replicates in the cytoplasm of infected cells. This virus is the causative agent of African swine fever, a haemorrhagic fever with high mortality rates in domestic pigs, European wild boar and American wild pigs. Its natural hosts (warthogs, bushpigs) are usually inapparently infected and act as reservoir hosts of ASFV in Africa. Soft ticks (*Ornithodoros*) likely act as a vector. ASFV is endemic to sub-Saharan Africa. In the last years outbreaks sporadically occurred also outside Africa.

**Description:** ViroReal® Kit African Swine Fever Virus is based on the amplification and detection of the major capsid protein gene *p72* of ASFV. It allows the rapid and sensitive detection of DNA of ASFV from samples purified from blood, lymph nodes, spleen, or serum (e.g. with the QIAamp DNA Mini Kit or QIAamp DSP Virus Kit).

**PCR-platforms:** ViroReal® Kit African Swine Fever Virus is developed and validated for the Applied Biosystems® 7500 instrument (Thermo Fisher Scientific), LightCycler® 480 (Roche) and Mx3005P® QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

**Sensitivity and specificity:** ViroReal® Kit African Swine Fever Virus has an analytical sensitivity of one copy/PCR. The limit of detection (LoD95 = smallest number of copies of target DNA which can be detected in 95% of cases) is 10.5 target copies/reaction and was determined by several replicates around the detection limit. The assay is specific for ASFV. Genotypes IX and X (found in Tanzania and Kenya) might not be detected by this kit.

**Product Description**

**Logarithmic view**

**Linear view**

**ABI Prism® 7500**: FAM channel, 530 nm
1:10 serial dilution of an ASFV DNA target

**ABI Prism® 7500**: FAM channel, 530 nm
ASFV positive control

**ABI Prism® 7500**: Cy5 channel, 667 nm
Internal DNA positive control

**ABI Prism® 7500**: VIC/HEX channel, 554 nm
Internal DNA positive control

**ViroReal®, BactoReal® and ParoReal Kits** run with the same thermal cycling conditions.
RNA and DNA material can be analysed in one PCR run.

For further information on our products please visit our homepage (www.ingenetix.com)