

ViroReal® Kit Porcine Parvovirus



For veterinary use only

| ViroReal® Kit Porcine Parvovirus | | | |
|----------------------------------|-----------|-------------|---------------------------|
| Order no. | Reactions | Pathogen | Internal positive control |
| DVEV00713 | 100 | FAM channel | Cy5 channel |
| DVEV00753 | 50 | FAM channel | Cy5 channel |
| DVEV00711 | 100 | FAM channel | VIC/HEX channel |
| DVEV00751 | 50 | FAM channel | VIC/HEX channel |

Kit contents:

- Detection assay for PPV
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive control for PPV
- Water



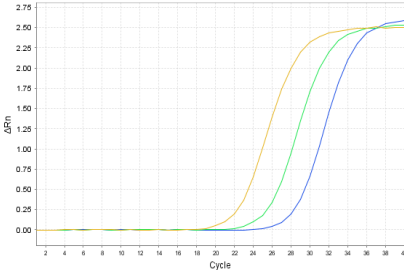
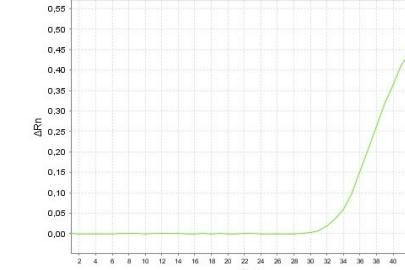
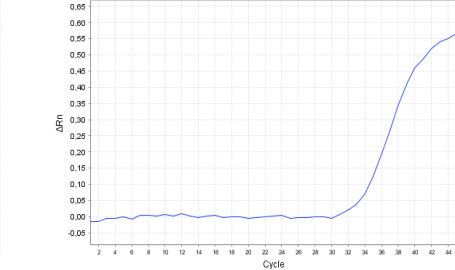
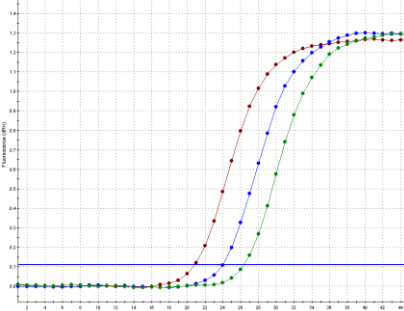
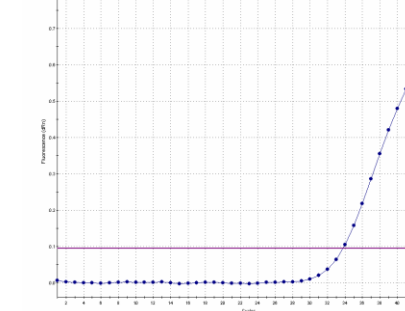
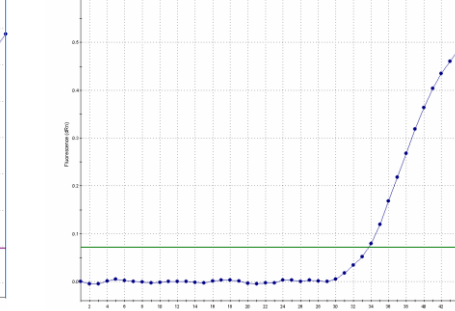
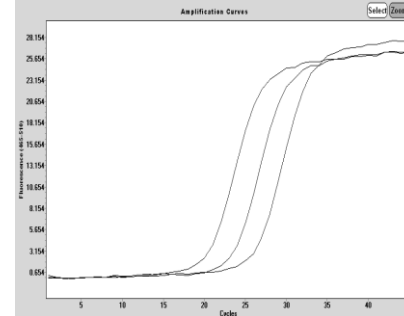
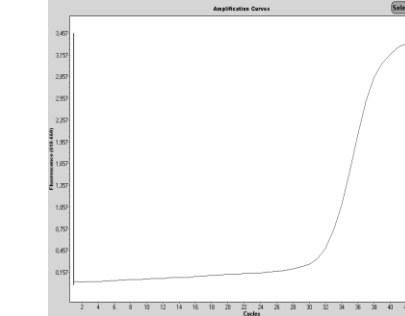
Background: Porcine parvovirus (PPV) is a member of the *Parvoviridae* family with a single-stranded DNA as genome. PPV is associated with reproductive problems, including abortion, still births, small litters, neonatal deaths and weak piglets. PPV multiplies normally in the intestine of the pig without causing clinical signs. Disease occurs when sero-negative dams are infected in the first half of gestation and the virus crosses the placenta.

Description: ViroReal® Kit Porcine Parvovirus is based on the amplification and detection of the non-structural protein 1 (NS1) gene of the porcine parvovirus (PPV). It allows the rapid and sensitive detection of DNA of PPV from samples purified from feces, urine, tissue, nasal or rectal swabs (e.g. with the QIAamp DNA Mini Kit or QIAamp DSP Virus Kit).

PCR-platforms: ViroReal® Kit Porcine Parvovirus is developed and validated for the ABI PRISM® 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 Porcine Parvovirus has a sensitivity of 10 target copies/PCR reaction. The limit of detection (LoD95 = smallest number of copies of target DNA which can be detected in 95% of cases) of 17 target copies/reaction was determined by several replicates around the detection limit. The kit was tested against a total of 7 PCV2 and 8 PRRS Virus EU isolates. No cross reactions were observed. A total of 30 field samples including DNA isolates from placenta and lungs samples were analysed and PPV correctly identified.

References: Ellis JA, Bratanich A, Clark EG, Allan G, Meehan B, Haines DM, Harding J, West KH, Krakowka S, Konoby C, Hassard L, Martin K, McNeilly F. 2000. Coinfection by porcine circoviruses and porcine parvovirus in pigs with naturally acquired postweaning multisystemic wasting syndrome. *J Vet Diagn Invest.* 12:21-27.

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| <p align="center">Detection of porcine parvovirus</p> | <p align="center">Detection of internal positive control CR-3</p> | <p align="center">Detection of internal positive control CR-1</p> |
| <p align="center">Amplification Plot</p>  | <p align="center">Amplification Plot</p>  | <p align="center">Amplification Plot</p>  |
| <p>ABI Prism® 7500: FAM channel, 530 nm 1:10 serial dilution of PPV DNA</p> | <p>ABI Prism® 7500: Cy5 channel, 667 nm Internal positive control</p> | <p>ABI Prism® 7500: VIC channel, 554 nm Internal positive control</p> |
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| <p>Mx3005P®: FAM channel 1:10 serial dilution of PPV DNA</p> | <p>Mx3005P®: CY5 channel Internal positive control</p> | <p>Mx3005P®: HEX channel Internal positive control</p> |
| <p align="center">Amplification Curves</p>  | <p align="center">Amplification Curves</p>  | |
| <p>LightCycler® 480: FAM channel 1:10 serial dilution of PPV DNA</p> | <p>LightCycler® 480: Cy5 channel Internal positive control</p> | |

**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)