

ViroReal[®] Kit Rabies Virus



For veterinary use only

ViroReal[®] Kit Rabies Virus

| Order no. | Reactions | Pathogen | Internal positive control |
|-----------|-----------|-------------|---------------------------|
| DVEV00813 | 100 | FAM channel | Cy5 channel |
| DVEV00853 | 50 | FAM channel | Cy5 channel |
| DVEV00811 | 100 | FAM channel | VIC/HEX channel |
| DVEV00851 | 50 | FAM channel | VIC/HEX channel |

Kit contents:

- Detection assay for rabies virus (RABV)
- Detection assay + target for internal RNA positive control (control of RT-PCR amplification and/or RNA extraction)
- RNA reaction mix
- Nuclease-free water
- Positive control (RNA) for rabies virus



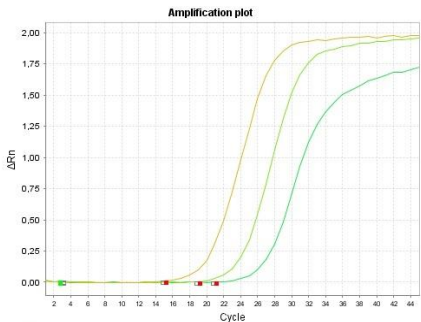
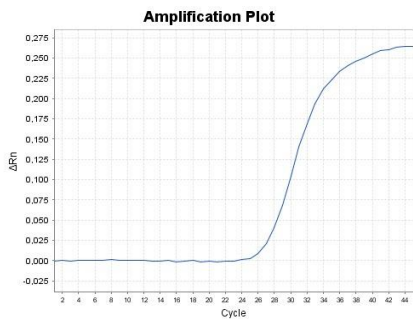
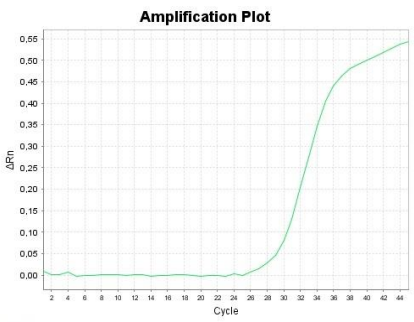
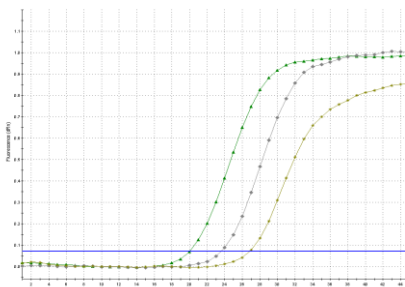
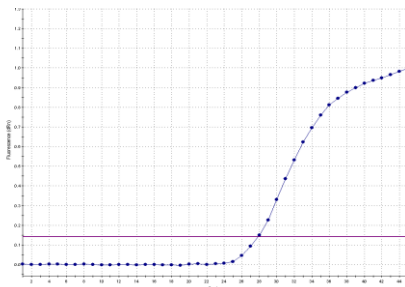
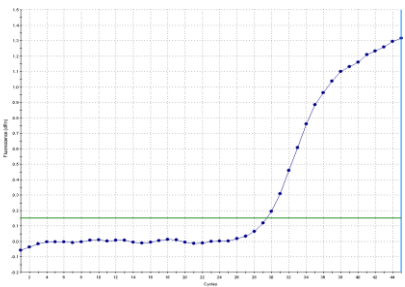
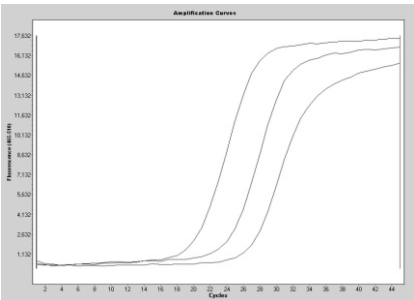
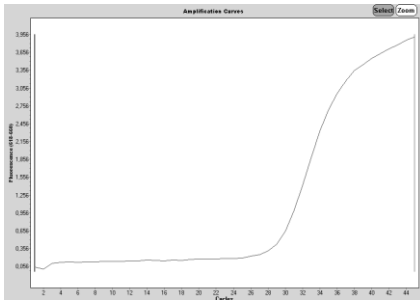
Background: Rabies is caused by a neurotropic virus of the genus *Lyssavirus* of the family *Rhabdoviridae*, and is transmissible to all mammals. As it is transmissible to humans by inoculation or inhalation of infectious virus, all suspected infected material must be handled under the appropriate safety conditions specified by the World Health Organisation (WHO). Previous known lyssavirus genotypes were recently reclassified, and the Lyssavirus genus currently consists of 14 lyssavirus species (Aravan virus, Australian bat lyssavirus (ABLV), Bokeloh bat lyssavirus (BBLV), Duvenhage virus (DUVV), European bat lyssavirus 1 (EBLV-1), European bat lyssavirus 2 (EBLV-2), Ikoma lyssavirus (IKOV), Irkut virus, Khujand virus, Lagos bat virus (LBV), Mokola virus (MOKV), Rabies virus (RABV), Shimoni bat virus (SHIBV) and the West Caucasian bat virus (WCBV). All lyssaviruses cause the severe neurotropic disease known as rabies. RABV (genotype 1, RABV-GT-1) is detected worldwide and is the prototype lyssavirus, the remaining species are known as rabies-related lyssaviruses. Human infections are mainly caused by RABV, DUVV, EBLV-1, EBLV-2 and ABLV.

Description: ViroReal[®] Kit Rabies Virus is based on the amplification and detection of the nucleoprotein (N) gene of rabies virus using reverse transcription real-time PCR. It allows the rapid and sensitive detection of RNA of rabies virus from samples purified from tissues (e.g. brain, etc), saliva, urine and cerebrospinal fluid. Serial sampling is recommended. Rabies virus RNA can be recovered efficiently from liquid samples using the QIAamp Viral RNA Mini Kit (Qiagen) or from tissue samples using RNeasy kit (Qiagen) extraction methods, for example.

PCR-platforms: ViroReal[®] Kit Rabies Virus is developed and validated for the ABI PRISM[®] 7500 instrument (Life Technologies), LightCycler[®] 480 (Roche) and Mx3005P[®] QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

Sensitivity and specificity: ViroReal[®] Kit Rabies Virus has an analytical sensitivity of 10 target copies per PCR. It is specific for the rabies virus (RABV).

References: Improved safety for molecular diagnosis of classical rabies viruses by use of a TaqMan real-time reverse transcription-PCR "double check" strategy. 2010. Hoffmann B, Freuling CM, Wakeley PR, Rasmussen TB, Leech S, Fooks AR, Beer M, Müller T. J Clin Microbiol. 48:3970-8.

| | | |
|--|---|---|
| <p>Detection of rabies virus (RABV)</p> | <p>Detection of internal RNA positive control IPC-3</p> | <p>Detection of internal RNA positive control IPC-1</p> |
|  |  |  |
| <p>ABI Prism® 7500: FAM channel, 530 nm 1:10 serial dilution of a rabies virus positive control</p> | <p>ABI Prism® 7500: Cy5 channel, 667 nm Detection of internal RNA positive control</p> | <p>ABI Prism® 7500: VIC channel, 554 nm Detection of internal RNA positive control</p> |
|  |  |  |
| <p>Mx3005P®: FAM channel 1:10 serial dilution of a rabies virus positive control</p> | <p>Mx3005P®: CY5 channel Detection of internal RNA positive control</p> | <p>Mx3005P®: HEX channel Detection of internal RNA positive control</p> |
|  |  | |
| <p>LightCycler® 480: FAM channel 1:10 serial dilution of a rabies virus positive control</p> | <p>LightCycler® 480: Cy5 channel Detection of internal RNA positive control</p> | |

BactoReal®, MycoReal, ParoReal and ViroReal® 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)