

ViroReal® Kit EMCV



For veterinary use only

ViroReal® Kit EMCV

Order no.	Reactions	Pathogen	Internal positive control
DVEV01013	100	FAM channel	Cy5 channel
DVEV01053	50	FAM channel	Cy5 channel
DVEV01011	100	FAM channel	VIC/HEX channel
DVEV01051	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for encephalomyocarditis virus (EMCV)
- 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 EMCV



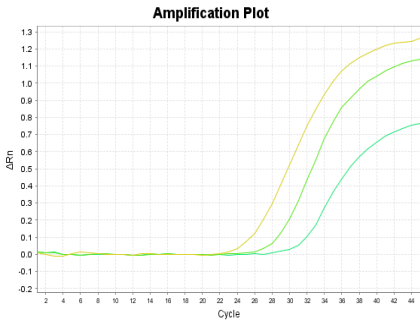
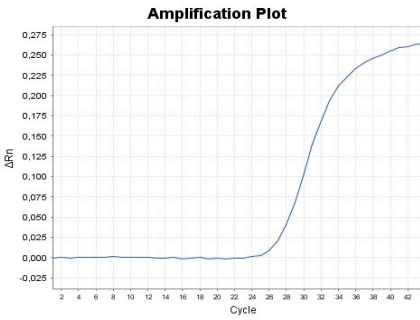
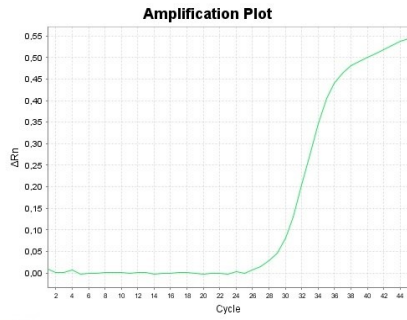
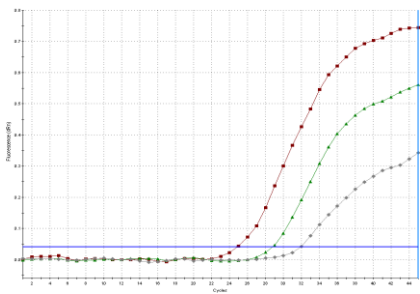
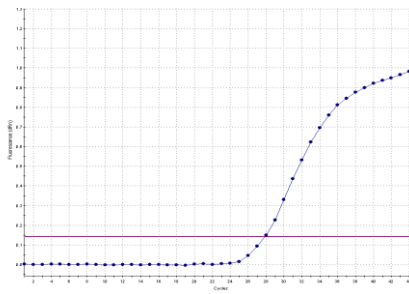
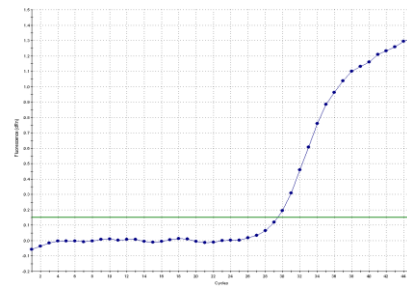
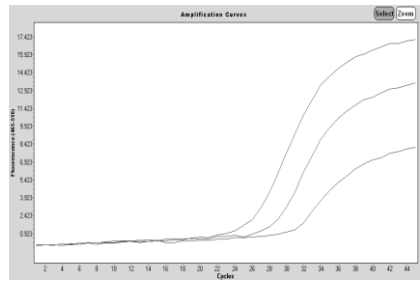
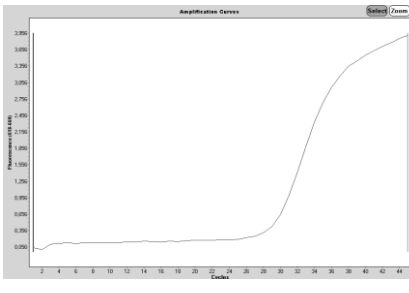
Background: Encephalomyocarditis virus (EMCV) is one of three virus species in the genus *Cardiovirus* in the family *Picornaviridae* and is a single stranded RNA (ssRNA) virus that causes encephalomyocarditis and reproductive disease in swine and zoologic mammals. Infected piglets suffer from encephalitis, myocarditis and sudden death. Reproductive problems include poor conception rates, embryo resorption, mummification, stillbirths, abortions and neonatal death. The disease affects the nervous, reproductive, respiratory and circulatory system of pigs. Fatal myocarditis due to EMC virus infection has been seen in primates, even- and odd-toed ungulates, elephants, carnivores and rodents. The disease can be found worldwide. The most important mode of virus transmission seems to be rodent-to-pig transmission, and rodents act as the major reservoir of the disease. Rats and other rodents probably infect pigs directly or through diseased carcasses and contaminated feeds or water supplies.

Description: ViroReal® Kit EMCV is based on the amplification and detection of the 3'UTR RNA of EMCV using one-step reverse transcription real-time PCR. It allows the rapid and sensitive detection of RNA of EMCV from samples purified from heart, liver, kidney, and spleen tissue from acutely dead animals or abortuses (e.g. with the QIAamp Viral RNA Mini Kit).

PCR-platforms: ViroReal® Kit EMCV 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.

Specificity and sensitivity: ViroReal® Kit EMCV has a sensitivity of approx. 50-100 RNA copies/PCR. It is specific for EMCV and detects all EMCV strains published in the NCBI database.

References: Billinis, C., Paschaleri-Papadopoulou, E., Psychas, V., Vlemmas, J., Leontides, S., Koumbati, M., Kyriakis, S.C. and Papadopoulos, O. 1999. Persistence of Encephalomyocarditis virus (EMCV) infection in piglets. *Vet. Microbiol.* 70:171–177.

Detection of EMCV	Detection of internal RNA positive control IPC-3	Detection of internal RNA positive control IPC-1
		
<p>ABI Prism® 7500: FAM channel, 530 nm 1:10 serial dilution of an EMCV RNA 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 an EMCV RNA 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 an EMCV RNA positive control</p>	<p>LightCycler® 480: Cy5 channel Detection of internal RNA 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)