

ViroReal® Kit CAEV



For veterinary use only

ViroReal® Kit CAEV

Order no.	Reactions	Pathogen	Internal positive control
DVEV03413	100	FAM channel	Cy5 channel
DVEV03453	50	FAM channel	Cy5 channel
DVEV03411	100	FAM channel	VIC/HEX channel
DVEV03451	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for CAEV (caprine arthritis and encephalitis virus)
- Detection assay + target for internal RNA positive control (control of RT-PCR amplification and/or RNA extraction)
- RNA reaction mix for one-step reverse transcription real-time PCR
- Nuclease-free water
- Positive control (DNA) for CAEV



Background: The Caprine Arthritis and Encephalitis Virus (CAEV) of goats is an enveloped, single-stranded RNA small ruminant lentivirus (SRLV) in the family *Retroviridae*. There are several, genetically distinct isolates of the virus that differ in virulence. The CAE-virus is closely related to the Maedi-Visna-Virus (MVV) of sheep. Both infect cells of the monocyte/macrophage lineage and cause lifelong infections. Transmission of the CAEV is through ingestion of virus-infected goat milk but also through virus-infected secretion of affected animals and droplet infection. Clinical symptoms such as severe arthritis of the carpal joint are seen in approximately 20 % of infected goats. Subclinical or clinical interstitial pneumonia, mastitis with lower milk production and chronic wasting have also been attributed to infection with the virus.

Description: ViroReal® Kit CAEV is based on the amplification and detection of the gag polyprotein gene by one-step reverse transcription real-time PCR (RT PCR). It allows the rapid and sensitive detection of CAEV RNA purified from blood (mononuclear cells, PBMC) (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

PCR-platforms: ViroReal® Kit CAEV is developed 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.

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

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