

ParoReal Kit *Neospora caninum*



For veterinary use only

ParoReal Kit *Neospora caninum*

Order no.	Reactions	Pathogen	Internal positive control
DVEP00513	100	FAM channel	Cy5 channel
DVEP00553	50	FAM channel	Cy5 channel
DVEP00511	100	FAM channel	VIC/HEX channel
DVEP00551	50	FAM channel	VIC/HEX channel

Kit contents:

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



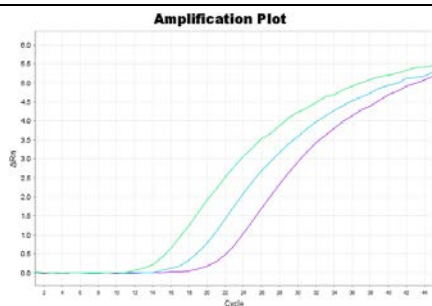
Background: *Neospora caninum* is a coccidian parasite and an important cause of spontaneous abortion in infected livestock. It has a heteroxenous life cycle, with the sexually reproductive stage occurring in the intestine of a definitive host (domestic dog, coyotes, gray wolves and dingos). Oocysts passed in the feces of the definitive host are ingested by intermediate hosts, such as cattle. Formation of cysts results in chronic infection of the intermediate host. Neosporosis is an infectious disease for many different canids and cattle. In canines it leads to neuromuscular degeneration. In dairy and beef cattle it is an important cause of reproductive problems and abortion. Once the cattle is infected, *N. caninum* is maintained as a life-long infection and is transmitted from cow to the fetus during pregnancy, resulting in abortion or weak or also normal calves. The occurrence of *N. caninum* infection in beef and dairy cattle has been reported worldwide.

Description: ParoReal Kit *Neospora caninum* is based on the amplification and detection of the mitochondrial NC5 gene (apparent in 2-3 copies/genome) of *Neospora caninum* using real-time PCR. It allows the rapid and sensitive detection *Neospora caninum* from samples purified from biopsies such as brain, heart, liver, placenta, and also body fluids (e.g. with the QIAamp DNA Mini Kit) or from feces (e.g. with the QIAamp DNA Stool Mini Kit).

PCR-platforms: ParoReal Kit *Neospora caninum* is developed 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.

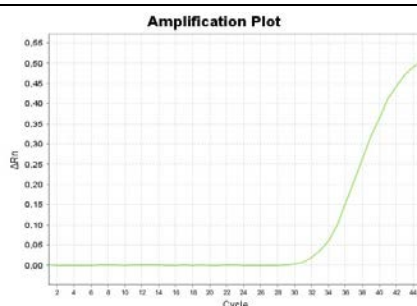
Sensitivity and specificity: ParoReal Kit *Neospora caninum* has a sensitivity of 5 target copies/PCR reaction and is specific for *Neospora caninum*.

Detection of *Neospora caninum*



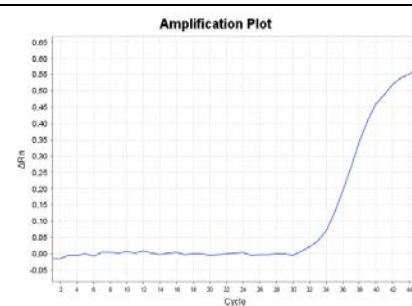
ABI Prism® 7500: FAM channel, 530 nm
1:10 serial dilution of *Neospora caninum* DNA

Detection of internal positive control CR-3



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

Detection of internal positive control CR-1



ABI Prism® 7500: VIC channel, 554 nm
Internal positive control

**ViroReal®, BactoReal®, MycoReal 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)