

MycoReal Kit Nosema apis & ceranae



For veterinary use only

MycoReal Kit Nosema apis & ceranae			
Order no.	Reactions	Pathogen	Internal positive control
DVEF00113	100	FAM + VIC/HEX channel	Cy5 channel
DVEF00153	50	FAM + VIC/HEX channel	Cy5 channel

Kit contents:

- · Nosema apis detection assay
- Nosema ceranae detection assay
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive controls for Nosema apis and Nosema ceranae
- Water



Background: Nosema apis and Nosema ceranae are microsporidian parasites recently reclassified as a fungus. Both species cause nosema disease in honey bees (Apis mellifera). The dormant stages are long-lived spores. The most notable symptom is dysentery. Nosema ceranae can be detected in all four seasons, while Nosema apis occurs mostly in the milder seasons of autumn and spring. There is a higher mortality of bees when they are infected by Nosema ceranae than when infected with Nosema apis. Double infection is also possible.

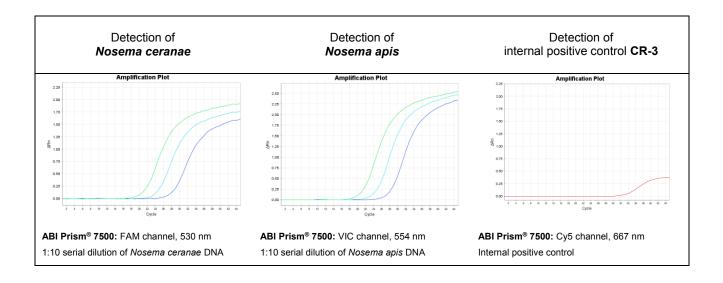
Description: MycoReal Kit *Nosema apis & ceranae* is based on the detection and differentiation of the 18S rRNA gene of *Nosema apis* (detection in VIC/HEX channel) as well as of the 18S rRNA gene of *Nosema ceranae* (detection in FAM and VIC/HEX channel) using multiplex real-time PCR. Thus, samples showing a positive signal in FAM as well as in VIC/HEX channel are positive for *N. ceranae*. Samples showing a positive signal in VIC/HEX channel are positive for *N. apis*. The kit facilitates the rapid and sensitive detection and differentiation of DNA of *Nosema apis and Nosema ceranae* from samples purified from bees (e.g. with the QIAamp DNA Mini Kit).

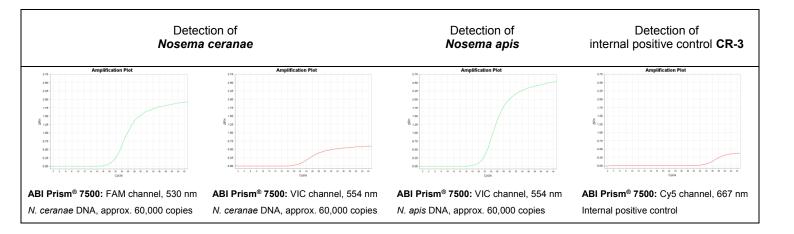
PCR-platforms: MycoReal Kit *Nosema apis & ceranae* is developed and validated for the ABI PRISM® 7500 instrument (Life Technologies), LightCycler® 480 (Roche) and Mx3005P® QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

Sensitivity and specificity: MycoReal Kit *Nosema apis & ceranae* has an analytical sensitivity of approx. 3 target copies/PCR reaction. It is specific for *Nosema apis* and *Nosema ceranae*.

Product Description







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)