

MycoReal Kit *Ascosphaera apis*



For veterinary use only

MycoReal Kit *Ascosphaera apis*

Order no.	Reactions	Pathogen	Internal positive control
DVEF00213	100	FAM channel	Cy5 channel
DVEF00253	50	FAM channel	Cy5 channel
DVEF00211	100	FAM channel	VIC/HEX channel
DVEF00251	50	FAM channel	VIC/HEX channel

Kit contents:

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

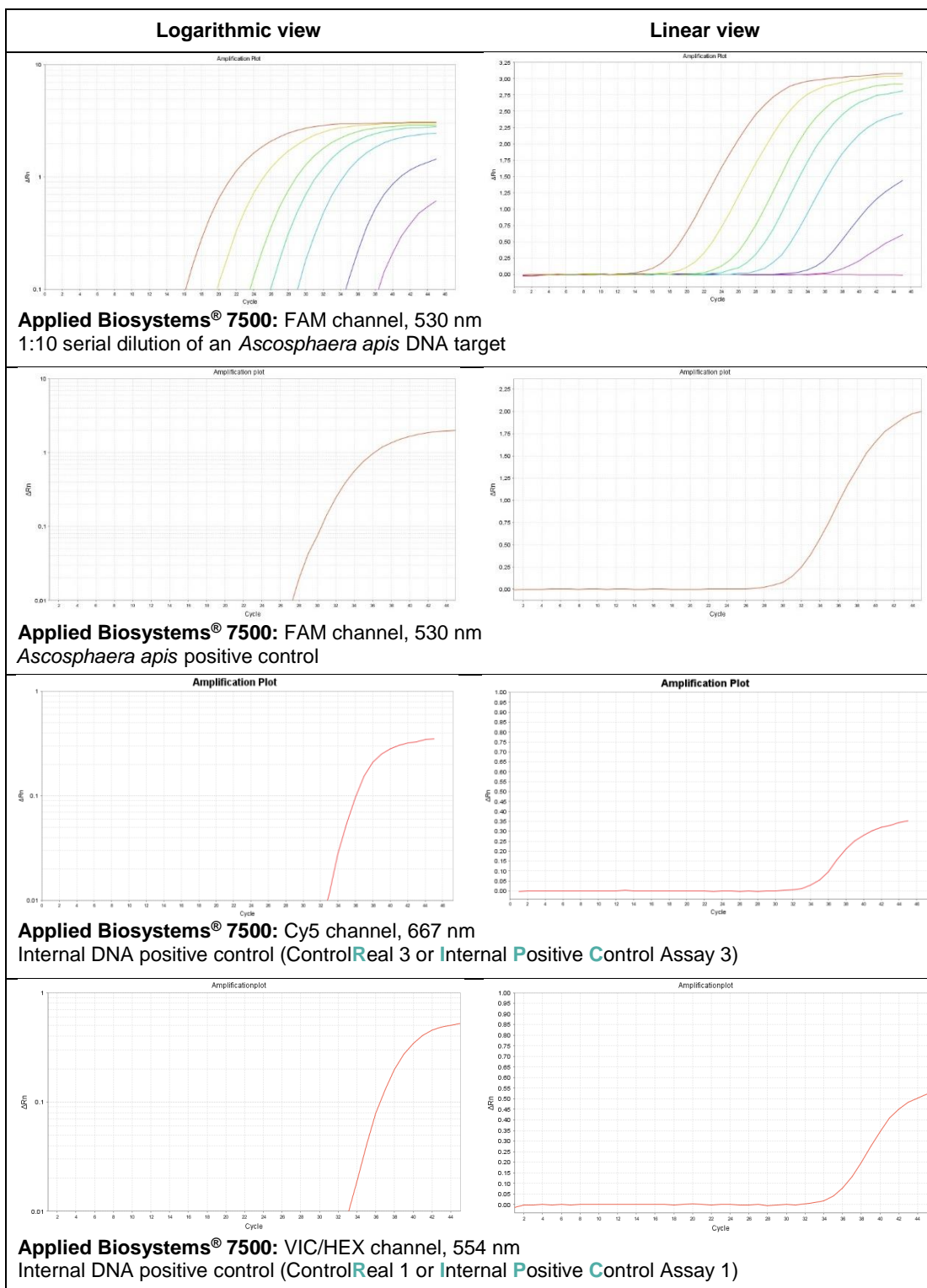


Background: *Ascosphaera apis* is a fungus belonging to the family *Ascophaeraceae* and affecting honeybee brood. This fungus causes the larval disease chalkbrood of honeybees (*Apis mellifera*). Larvae infected by ingesting fungal spores that germinate within the digestive tract and compete with the larvae for food leads to starvation. The fungus consumes the body of the larvae, resulting in a white and “chalky” appearance, hence the designation chalkbrood, and is most visible during wet springs with cooler outside temperatures. The chalky mummies are highly infectious and spores of this fungus often re-infect colonies. *Ascosphaera apis* causes large economic losses, particularly in combination with other pathogens.

Description: MycoReal Kit *Ascosphaera apis* is based on the amplification and detection of the ITS1 region of *Ascosphaera apis* using real-time PCR. It allows the rapid and sensitive detection of *A. apis* from diseased larvae and/or honey samples (spores) (e.g. with the QIAGEN DNeasy Plant Mini Kit).

PCR-platforms: MycoReal Kit *Ascosphaera apis* 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.

Sensitivity and specificity: MycoReal® Kit *Ascosphaera apis* detects at least 10 target copies/PCR reaction. The kit is specific for *Ascosphaera apis*.



**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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