

RNA-PCR for the Detection of Cucurbit Aphid-borne Yellows Virus

Cucurbit Aphid-borne Yellows Virus, an aphid-transmitted Polerovirus, infects several cucurbitacea crops such as cucumber, zucchini and pumpkin and causes severe yield loss. It is wide-spread and was frequently reported in Southern Europe. In 2019 it was identified in German green-houses for the first time.



Family: Luteoviridae - Polerovirus

Distribution: world-wide

Host range: Cucurbitacea crops (main hosts)

Transmission: Aphids

Symptoms: yellowing and thickening of leaves, chlorosis, blossom drop and harvest losses

Further Literature:

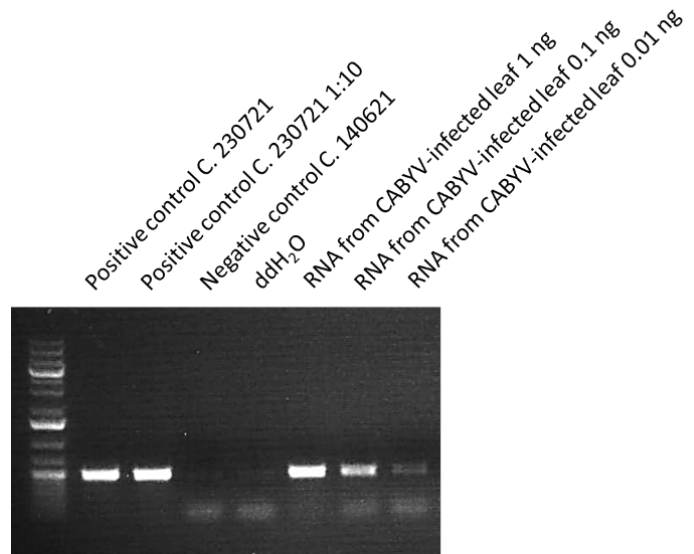
- Knierim, D. et al. (2010), *Molecular identification of three distinct Polerovirus species and a recombinant Cucurbit aphid-borne yellows virus strain infecting cucurbit crops in Taiwan*. Plant Pathology, 59: 991-1002.
- Menzel W., Maeritz U., Seigner L. (2020), *First report of Cucurbit aphid-borne yellows virus infecting cucurbits in Germany*. New Disease Reports 41, 1

High specificity and sensitivity!

Cross reactions tested and not detected: *BChV, BMYV, CGMMV, MNSV, PRSV, SqMV, TRSV, TuYV, WMVII, WSMoV, ZGMMV, ZYFV, ZYMV*

And

Cucumis sativus, Cucumis melo, Citrullus lanatus, Cucurbita pepo subsp. pepo, Cucurbita pepo, Cicer arietinum, Lactuca sativa, Beta vulgaris var. altissima



Detection of CABYV by LOEWE® RNA-PCR reaction kits

Complete RNA-PCR One-Tube One-Step reaction Kits contain: Thermostable Reverse Transcriptase, Hot-Start DNA Polymerase, Premix of pathogen specific primers and dNTPs, DNA-based positive and negative controls, buffers and PCR-grade water

09182C/100	Cucurbit aphid-borne yellows Virus RNA-PCR complete reaction kit	100 reactions
09182PC	Positive PCR Control Cucurbit aphid-borne yellows Virus (DNA-based)	1 vial (10 reactions)
09182NC	Negative Control Cucurbit aphid-borne yellows Virus (DNA-based)	1 vial (10 reactions)