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Pathogen :

WMV-2 Watermelon Mosaic Virus 2
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Test format :

DAS-ELISA (alkaline phosphatase)

Catalogue number :

PSS10010

REAGENT

	Coating-Ab	AP-Conjugate-Ab
Batch	90309	90309
Type	Rabbit Polyclonal	Rabbit Polyclonal
Dilution	1/100	1/100
Format	PBS / Glycerol 50%	PBS / Glycerol 50%
Storage temperature	-20° C	-20° C
Use by		

Number of tests	500
Volume per bottle of Coating-Ab*	500 µL
Volume per bottle of Conjugate-Ab*	500 µL

* Volume based on a test performed with 200 µl per well. 1 test = 1 well

QUALITY CONTROL

Value of ELISA responses (OD 405 nm)*	Positive Control	Negative Control
	0.564	0.025

* ELISA responses were measured 1 hour after incubation of substrate (pNPP) at +37° C.



CHARACTERISTICS OF THE DISEASE

Watermelon mosaic virus (**WMV**, genus *Potyvirus*) is very common in cucurbits worldwide. This virus can infect, produce symptoms and causes agronomical losses on all commercially grown cucurbits. This aphid-transmitted virus causes milder symptoms on the foliage of most infected plants like squash, and growers have seen a lessening of foliar symptoms following fertilization. Fruit distortion and color breaking are still a problem on varieties like yellow straight-neck squash. The host range for WMV-2 is not limited to cucurbits, thus opening the possible overwintering of this virus in several leguminous species such as clover. It also occasionally infects pea and orchids. In addition, WMV occurs naturally in many weeds that can host the virus throughout the year. Mixed infections of cucurbits with CMV and WMV-2 are common by the end of the season.

MORE INFORMATION

Desbiez C, Joannon B, Wipf-Scheibel C, Chandeysson C, Lecoq H. 2009. Emergence of new strains of Watermelon mosaic virus in South-eastern France: Evidence for limited spread but rapid local population shift. *Virus Res.* Jan 16.

Desbiez, C; Costa, C; Wipf-Scheibel, C, et al. 2007. Serological and molecular variability of watermelon mosaic virus (genus *Potyvirus*). *ARCHIVES OF VIROLOGY.* Volume: 152. Issue: 4. Pages: 775-781.