



ANOGEN - A Division of YES Biotech Laboratories Ltd.

2355 Derry Road East, Unit 23, Mississauga, ON L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

Pathogen :

PapMV
Papaya Mosaic Virus

Test format :

DAS-ELISA (alkaline phosphatase)

Catalogue number :

PSS10004

REAGENT

	Coating-Ab	AP-Conjugate-Ab
Batch	1141	1141
Type	Rabbit Polyclonal	Rabbit Polyclonal
Dilution	1/1000	1/1000
Storage temperature	+4°C	+4°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

	Positive Control	Negative Control
Value of ELISA responses (OD 405 nm)*	0.8	0.098

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



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CHARACTERISTICS OF THE DISEASE

Papaya mosaic virus (**PapMV**) is a member of the genus *Potexvirus* within the *Flexiviridae* family closely related to potato virus X. It is a 530-nm-long filamentous particle, with a positive sense single-stranded RNA genome comprising 6,656 nucleotides (excluding the poly(A) tail) with six open reading frames. PapMV was detected recently in Mexico (2006) in diseased papaya plants growing alone and in mixed plantations with pumpkin.

The primary symptom of PapMV is a mild green mottle of the foliage which is most easily seen in the young leaves. The young leaves develop a vein clearing, which is generally followed by rugosity of the laminae. The young leaves are slightly reduced in size and the trees are stunted. There is no evidence that the virus affects fruit quality and yield. The only method of transmission is mechanical, and vectors are unknown. Attempts to transmit the virus by aphids was not successful. Therefore, the PapMV seems not to be of high economical importance.