



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 :

BWYV Beet Western Yellow Virus

Test format :

DAS-ELISA (alkaline phosphatase)

Catalogue number :

PSS10005

REAGENT

	COATING-Ab	AP-CONJUGATE-Ab
Batch	90406	90407
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 100 µl per well. 1 test = 1 well

QUALITY CONTROL

Value of ELISA responses (OD 405 nm)*	Positive Control	Negative Control
	1.018	0.023

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



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CHARACTERISTICS OF THE DISEASE

Beet Western Yellow Virus (**BWYV**) is the most widely distributed and abundant virus affecting sugarbeets in the world. BWYV is a virus phloem-limited member of the genus *Poterovirus*, family *Luteoviridae*, and is transmitted to sugarbeets by a least eight species of aphid. BWYV comprises small icosahedral viruses with a single-stranded plus-sense RNA genome of about 5±7 kb.

Initial symptoms appear as yellowing on tops of older mature leaves. As the virus infection develops, yellowing increases throughout the whole plant but veins remain green in color while leaves become thick and brittle. Degree of damage depends upon virulence, persistence of the virus strain and susceptibility of the variety.

MORE INFORMATION

C. Reinbold, F. E. Gildow, E. Herrbach, V. Ziegler-Graff, M. C. Gonçalves, J. F. J. M. van den Heuvel and V. Brault 2001. Studies on the role of the minor capsid protein in transport of Beet western yellows virus through *Myzus persicae*. *Journal of General Virology*, **82**, 1995-2007.