

Potato Virus Y (PVY)

Potyvirus

Synonyms

- brinjal mosaic virus
- datura 437 virus
- potato acropetal necrosis virus
- potato severe mosaic virus
- tobacco veinbanding virus

Plant hosts

- Major hosts: *Capsicum* (peppers), *Capsicum annuum* (bell pepper), *Lycopersicon esculentum* (tomato), *Nicotiana*, *Nicotiana tabacum* (tobacco), *Solanum tuberosum* (potato)
- Wild hosts: *Solanum* (nightshade), *Solanum nigrum* (black nightshade)

Symptoms

Generally, the foliage of plants infected with PVY show mild roughness, faint mottling, and slight distortion. Severe symptoms consist of dark brown, dead areas in stems of nearly mature leaflets. The terminal leaflets may show severe necrosis, and all leaflets are affected. Infected leaflets may eventually roll downward with curved petioles, giving the plant a drooping appearance. The virus causes severe malformation of the upper leaves, defoliation, and early plant death. There are no symptoms on the fruit. Depending on the strain of PVY virus present, tubers may appear normal or show symptoms.



Symptomatic leaves of potato virus Y

Transmission

The virus is transmitted by infected tubers and from plant to plant contact. The virus can also be dispersed by aphids feeding on infected plants. PVY does not appear to be transmitted through the seed.

Geographic distribution

PVY is distributed worldwide.

Applicable regulations

Potato virus Y is a pathogen of concern to Oregon's interstate and international customers. [Virus testing](#) is available through the Commodity Inspection Division for this virus.