UK pest status report for Synchytrium endobioticum

Field	Detail
Pest species name	Synchytrium endobioticum (Schilb.) Percival
Pest taxon (order, family)	Chytridiales, Synchytriaceae (Species Fungorum, 2023)
Synonyms	Chrysophlyctis endobiotica Schilb., Synchytrium solani Massee (Species Fungorum, 2023).
Pest common name	Wart disease of potato (CABI, 2023).
Regulatory status	Great Britain: Regulated quarantine pest Northern Ireland: Regulated quarantine pest
Pest status in UK (as per ISPM 8) ¹	Present - not widely distributed and under official control
Global distribution	Europe: Central Russia (widespread), Bulgaria, Czech Republic, Estonia, Georgia, Germany, Ireland, Italy, Luxembourg, Montenegro, Romania, Russia, Slovakia, Sweden, Turkey, Ukraine, UK (present, restricted distribution), Armenia, Belarus, Denmark, Finland, Greece, Netherlands, Poland (few occurrences). Oceania: New Zealand (restricted distribution) Africa: South Africa (restricted distribution), Tunisia (few occurrences). America: Bolivia, Falkland Islands, Peru (present), Canada (restricted distribution)
	Asia: Bhutan, China, Nepal, India (restricted distribution) (EPPO, 2023)
Main hosts	Solanum tuberosum, Nicandra physalodes, Solanum americanum, Solanum dulcamara, Solanum lycopersicum, Solanum nodiflorum, Solanum villosum (CABI, 2023)

Likelihood for establishment in UK

The pathogen is already present in the UK, albeit localized. Without current regulations, it is likely it would establish widespread in the UK. Potatoes are a highly valuable crop in the UK. However, with prevention strategies such as only planting resistant seed potato varieties, not introducing soil or planting stock from suspect areas, and with the use of buffer zones round contaminated areas, the spread of *S. endobioticum* is effectively contained (Mulder and Turkensteen, 2005; EPPO, 2017).

Resting spores can remain viable in soil for decades (CABI, 2023), so crop rotation is not effective at managing the disease, and contamination by the pathogen cannot be eradicated if it enters an area, so the spread must be prevented (Wale et al., 2008).

References

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¹ International Standard for Phytosanitary Measures (ISPM) 8 Determination of pest status in an area: https://www.fao.org/3/x2968e/x2968e.pdf