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Guidelines for Isolation and Identification of Regulated Nematodes of Potato (*Solanum
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Abstract

Detailed morphological, molecular and extraction criteria are presented for verification of the identities of quarantined nematode pests of trade concern in North American potatoes judged to be reliable by representatives of Canada, Mexico and the United States. These nematodes include *Globodera rostochiensis*, *G. pallida*, *Meloidogyne chitwoodi*, *Ditylenchus destructor*, and *D. dipsaci*. Information on source material and specimen archive, with discussion of alternative molecular diagnostic methods and primers is included. Guidelines are provided for interpretation of results from diagnostics. This information is referenced in the North American Plant Protection Organization Regional Standard for Phytosanitary Measures No. 3.

Keywords

Microscopy, PCR (polymerase chain reaction), regulatory nematology.

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