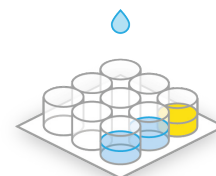


Validation Report: ELISA

PSA/SRA 92601 • *Phytophthora* (Phyt)



Test Characteristics

Test Name	Phytophthora	Capture Antibody	Polyclonal (Rabbit)
Catalog Number	92601	Detection Antibody	Monoclonal (Mouse)
Acronym	Phyt	Format	DAS-ELISA
Genus	Phytophthora	Diluents	GEB2/RUB6
		Sample Dilution	1:10

Summary

The Phytophthora ELISA test system is intended for use with plant samples exhibiting symptoms of Phytophthora infection. This test can also be used to test fungal culture samples. The Phytophthora ELISA detects Phytophthora to the genus level and cannot differentiate species.

Diagnostic Sensitivity

True Positives	94
Correct Diagnoses	94
Percent	100%

Analytical Sensitivity

Limit of Detection: 1:1,280 dilution of infected tissue (pathogen titer unknown)

Analytical Specificity

Inclusivity:

Species Detected¹:

Phytophthora alticola-type	Phytophthora asparagi
Phytophthora alni	Phytophthora boehmeriae
Phytophthora bisheria	Phytophthora cactorum
Phytophthora cajani	Phytophthora cambivora
Phytophthora canlensis	Phytophthora capsici
Phytophthora cinnamomi var parvispora	Phytophthora cinnamomi var robiniae
Phytophthora citricola	Phytophthora citrophthora
Phytophthora cryptogea	Phytophthora drechsleri
Phytophthora europaea	Phytophthora erythroseptica
Phytophthora fragariae var fragariae	Phytophthora fragariae var rubi
Phytophthora glovera	Phytophthora gonapodyides
Phytophthora heveae	Phytophthora hibernalis
Phytophthora infestans	Phytophthora kernoviae
Phytophthora lagoariana	Phytophthora lateralis
Phytophthora lavandula	Phytophthora meadii
Phytophthora medicaginis	Phytophthora megasperma



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Species Detected¹:

Phytophthora melonis	Phytophthora nemorosa
Phytophthora nicotianae	Phytophthora niederhauserii
Phytophthora palmivora	Phytophthora pistaciae
Phytophthora porri	Phytophthora pseudotsuga
Phytophthora quercina	Phytophthora ramorum
Phytophthora richardiae	Phytophthora sinensis
Phytophthora siskiyouensis	Phytophthora sojae
Phytophthora syringae	Phytophthora tropicalis
Phytophthora uliginosa	

¹The list above represents the Phytophthora species that have been shown to be detected by the Phytophthora genus ELISA test and does not represent all species that may be detected. If you have confirmed detection of a Phytophthora species not on this list, please contact us. We would like to work with you to further validate the Phytophthora genus ELISA detection capabilities.

Exclusivity:**Cross-reacts With:**

Phytophthora litorale	Plasmopara halstedii
Plasmopara viburni	Pythium dissotocum ²
Pythium irregulare ²	Pythium myriotylum ²
Pythium olegandrum ²	

²This test has not been validated for use as a tool for routine detection of Pythium and therefore is not recommended for such use.

Does Not Cross-react With:

None known	
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Diagnostic Specificity

True Negatives 40
 Correct Diagnoses 40
 Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Banana leaves	Bougainvillea leaves	Camellia leaves	Cinnamomum leaves
Citrus stems	Magnolia leaves	Nerium leaves	Oak leaves
Photinia leaves	Potato leaves	Pyracantha leaves	Rhododendron leaves
Rose leaves	Sequoia leaves	Syringa leaves	Tomato leaves
Umbelularia leaves	Viburnun leaves		



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