

USDA-APHIS-PPQ-S&T- BELTSVILLE LABORATORY
IDPHY: MOLECULAR AND MORPHOLOGICAL IDENTIFICATION OF *PHYTOPHTHORA*
SOP-PID-05.04 MOLECULAR

ITS and COI accession numbers for *Phytophthora* species in clade 7

SPECIES NAME, YEAR	ITS CLADE	TYPE	ISOLATE CODE	ITS rDNA	COI
P. alni alni (6) (2004)	7a	ET	CPHST BL 1 (P16203)	MK496513	MH136991
P. alni multiformis (6) (2004)	7a	ET	CPHST BL 2 (P16202), P16202	MG783372	MK493472
P. alni uniformis (2004)	7a	ET	16206D1244 (WPC), CPHST BL 3 (P16206)	MK496514	MH136992
P. attenuata (2017)	7a	ET	TW129 (CBS 141199)	KU517154	N/A
P. cambivora (1927)	7a	SE1	CPHST BL 155 (P19997)	MG783387	MH136860
P. cinnamomi (1922)	7a	ET	CPHST BL 12 (P2110)	MG865473	MH136869
P. europaea (2002)	7a	ET	CPHST BL 37G (P10324)	MG865488	MH136884
P. flexuosa (2017)	7a	ET	TW78 (CBS 141201)	KU517152	N/A
P. formosa (2017)	7a	ET	TW107 (CBS141203)	KU517153	N/A
P. fragariae (1940)	7a	SE1	CPHST BL 18 (P19539)	MG865494	MH136890
P. intricata (2013)	7a	ET	TW259 (CBS 141211)	KU517155	N/A
P. parvispora (2014) (14)	7a	ET A1	CBS 132772, CPHST BL 98 (P19847)	KC478667	MH136953
P. rubi (2007)	7a	ET	CPHST BL 54 (P16899)	MG865584	MH136976
P. tyrrhenica (2017)	7a	ET	PH154 (CBS 142301)	KU899188	N/A
P. uliginosa (2002)	7a	ET	CPHST BL 59 (P10413)	MG865597	MH136988
P. vulcanica (2017)	7a	ET	X3a (CBS 141216)	MF036209	N/A
P. asiatica (2014)	7b	ET	CPHST BL 124 (P19977), Tok-1	MG783378	AB688314
P. cajani (1978) (22)	7b	SE1	CPHST BL 116 (P3105)	MG783386	MH136859
P. melonis (2007) (7)	7b	ET	CPHST BL 23 (P6870)	MG865536	MH136931
P. niederhauserii (2014)	7b	ET	CPHST BL 45 (P10616)	MG865552	MH136944
P. pisi (2013)	7b	ET	CPHST BL 133 (P19612)	MG865567	MH477754
P. pistaciae (2001) (12)	7b	ET	ATCC MYA-4082	FJ746648	N/A
P. sojiae (1958)	7b	SE1	CPHST BL 180 (P3248)	MG865587	MH136979
P. vignae (1957) (17)	7b	SE1	CPHST BL 30 (P3019)	MG865598	MH136989
P. fragariaefolia (2014)	7c	ET	CPHST BL 141 (P19990)	MG865495	MH136891
P. nagaii (2014)	7c	ET	CPHST BL 121 (P19989)	MG865547	MH136940

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MG865488	MH136890
KU517152	MH136953
KU517153	MH136976
MG865494	MH136988
KU517155	AB688314
KC478667	MH136859
MG865584	MH136931
KU899188	MH136944
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