

Table 7 Identity of haplotypes of *Phytophthora infestans* inferred from mitochondrial and nuclear gene sequences

Locus	Haplotype (Frequency)	Isolates	Population
Mitochondrial (P3+P4)	H1 (23)	B124,B189, B193, B217, B219, BOL9, BOL12, BOL14, 3090, 3094, 3152, 3198, 3199, 3298, 3300, PCZ026, PCZ098, PCZ118, PPA008, PPU003, 21A93, 15/99, 3/99	Brazil, Bolivia, Ecuador, Peru, Ireland
	H2 (24)	3153, PER802, PER808, PER812, PCZ007, PCZ050, PPU100, F7, ZE, 51, 52, 141, 151, 152, Pic97224, Pic97322, Pic97370, Pic97605, Pic97620, US1, US7, US15, 12/94, 16/99	Ecuador, Peru, Costa Rica, Mexico, USA, Ireland
	H3 (1)	Pic97207	Mexico
	H4 (1)	Pic97388	Mexico
	H5 (3)	Pic97180, Pic97652, Pic98305	Mexico
	H6 (2)	3165, 3167	Ecuador
	H7 (4)	US6, US11, US12, US13	USA
	H8 (2)	US14, US17	USA
	H9 (1)	PHU006	Peru
	H10 (1)	3253	Ecuador
Nuclear (IntronRas+RAS)	H1 (19)	B40, B124, B189, B193, B217, B219, BOL3, BOL12, BOL13, BOL14, BOL15, BOL16, PCZ007, PCZ050, US6, US8, US11, US14, 3/99	Brazil, Bolivia, Peru, USA, Ireland
	H2 (93)	B40A, B124A, B189A, B193A, B217A, B219A, BOL3A, BOL12A, BOL13A, BOL14A, BOL15A, BOL16A, PER800, PER802, PER804, PER808, PER812, PER832, PCZ007A, PCZ050A, PCZ026, PCZ033, PCZ098, PCZ118, PHU006, POX004, PCO038, PPA008, PPU003, PPU100, 3090, 3092, 3152, 3153, 3154, 3154A, 3198, 3300, Pic97620, Pic97620A, Pic97224, Pic97322, Pic97605, Pic97370, Pic97630, Pic97652, Pic97652A, Pic97180, Pic98372, Pic98301, Pic98366, CI, CIA, DR4, DR4A, F7, F7A, GB-2, GB-2A ZB, ZBA, ZE, ZEA, 51, 51A, 52, 52A, 61, 61A, 141, 141A, 151, 151A, 152, 152A, US1, US6A, US7, US8A, US14A, US15, US17, 6/95, 6/95A, 31/95, 31/95A, 18/94, 18/94A, 21A93, 21A93A, 12/94, 12/99, 12/99A	All

H3 (2)	US7A, US17A	USA
H4 (14)	PER800A, PER802A, PER804A, PER808A, PER812A, PER32A, PPU100A, 3090A, 3153A, Pic97180A, Pic97207, Pic98366A, US1A, 3/99A	Ecuador, Peru, Mexico, USA, Ireland
H5 (1)	Pic97207A	Mexico
H6 (20)	PCZ026A, PCZ033A, PCZ098A, PCZ118A, PHU006A, POX004A, PCO038A, PPA008A, PPU003A, 3092A, 3152A, 3198A, 3300A, Pic97224A, Pic97370A, Pic97388, Pic97388A, Pic97630A, Pic98372A, 12/94A	Peru, Ecuador, Mexico, Ireland
H7 (1)	16/99A	Ireland
H8 (1)	16/99	Ireland
H9 (1)	Pic97322A	Mexico
H10 (1)	Pic97605A	Mexico
H11 (1)	Pic98301A	Mexico
H12 (1)	US11A, US15A	USA

Haplotype number and frequency (i.e., the number of the haplotype in the sample) is shown in parentheses.

For the nuclear locus, the number of haplotypes in the sample refers to the number of chromosomes, since *P. infestans* is a diploid organism. The same isolate can carry two different haplotypes. For the mitochondrial locus, the number of haplotypes refers to the number of isolates.

For the mitochondrial genealogy, one isolate from Peru (PHU006) represented a unique haplotype (H9) and an Ecuadorian isolate (3253) was inferred as recombinant haplotype (H10) .

For the nuclear genealogy, inferred recombinant haplotypes: H9 (Pic97322A); H10 (Pic97605A); H11 (98301A); and H12 (US11A-980059 and US15A-80787-94L) were excluded from analysis that assume no recombination in the history of the sample.