

Table S1. *Phytophthora* species reported in natural ecosystems in Portugal.

Species	Host	References
<i>P. alticola</i>	<i>Eucalyptus globulus</i>	[57]
<i>P. amnicola</i>	<i>Alnus glutinosa</i>	This study
<i>P. asparagi</i>	<i>A. glutinosa</i>	This study
<i>P. bilorbang</i>	water	This study
<i>P. cactorum</i>	<i>A. glutinosa</i>	This study
<i>P. cambivora</i>	<i>Castanea sativa</i>	[58,59]
<i>P. castanetorum</i>	<i>C. sativa</i>	[60]
<i>P. chlamydospora</i>	<i>A. glutinosa</i>	This study
<i>P. cinnamomi</i>	<i>A. glutinosa</i> , <i>Arbutus unedo</i> , <i>Calluna vulgaris</i> , <i>Castanea sativa</i> , <i>Cistus crispus</i> , <i>C. ladanifer</i> , <i>C. populifolius</i> , <i>C. salvifolius</i> , <i>E. globulus</i> , <i>Genista triacanthos</i> , <i>Pinus pinaster</i> , <i>Quercus rotundifolia</i> , <i>Q. robur</i> , <i>Q. suber</i> , <i>Ulex</i> spp.	[56,57,61–64]; this study
<i>P. condilina</i>	water	[65]
<i>P. gonapodyides</i>	<i>A. glutinosa</i> , water	[65]; this study
<i>P. inundata</i>	water	[65]
<i>P. lacustris</i>	<i>A. glutinosa</i>	[18]
<i>P. multivora</i>	<i>A. glutinosa</i>	This study
<i>P. plurivora</i>	<i>A. glutinosa</i> , water	[65], this study
<i>P. polonica</i>	<i>A. glutinosa</i>	This study
<i>P. pseudocryptogea</i>	<i>A. glutinosa</i> , water	[65], this study
<i>P. psychrophila</i>	<i>Q. rotundifolia</i>	[66]
<i>P. quercina</i>	<i>Q. rotundifolia</i> , <i>Q. pyrenaica</i>	[60]
<i>P. rosacearum</i>	<i>A. glutinosa</i>	This study
<i>P. ramorum</i>	<i>Viburnum</i> sp.	[67]
<i>P. xalni</i>	<i>A. glutinosa</i>	[18]

Table S2. *Phytophthora* species reported as pathogenic on *Alnus glutinosa*.

Species	References
<i>P. amnicola</i>	This study
<i>P. asparagi</i>	This study
<i>P. acerina</i>	[8]
<i>P. cactorum</i>	[7]
<i>P. cambivora</i>	[68,69]
<i>P. chlamydospora</i>	This study
<i>P. cinnamomi</i>	[68]
<i>P. citrophthora</i>	[70]
<i>P. cryptogea</i>	[68]
<i>P. gallica</i>	[71]
<i>P. gonapodyides</i>	[7]
<i>P. inundata</i>	[72]
<i>P. lacustris</i>	[7,72]
<i>P. megasperma</i>	[7]
<i>P. multivora</i>	This study
<i>P. nicotianae</i>	[70]
<i>P. palmivora</i>	[70]
<i>P. plurivora</i>	[7,8,14,15,73]
<i>P. polonica</i>	[55]
<i>P. pseudocryptogea</i>	[8]
<i>P. pseudosyringae</i>	[74]
<i>P. ramorum</i>	[73]
<i>P. rubi</i>	[68]
<i>P. syringae</i>	[55]
<i>P. rosacearum</i>	This study
<i>P. uniformis</i>	[15,68]
<i>P. ×alni</i>	[15,68]
<i>P. ×multiformis</i>	[15,68]
<i>Phytophthora</i> taxon raspberry	[72]