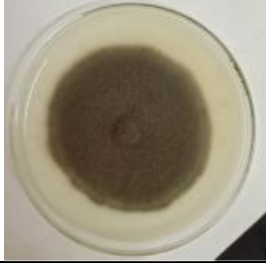


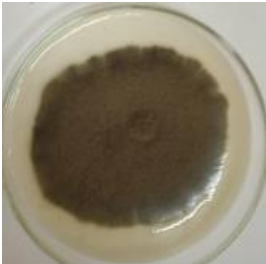



Supplementary Table S1. Characteristics of isolates – representatives of slow-growing dark septate endophytes morphotypes from *V. vitis-idaea* roots (DSE1–5 isolates)

Isolate – morphotype representative	Average growth rate, cm/day	Colony appearance	Accession number	Accordance %
DSE1	0.3 ± 0.02	Olive-brown 	<i>Phialocephala fortinii</i> KJ817297.1	99.64
DSE2	0.24 ± 0.01	Dark brown 	<i>Phialocephala fortinii</i> : MT276008.1, MH931279.1, LC131022.1, etc.	100
DSE3	0.24 ± 0.03	Dark brown Abundant areal mycelium 	<i>Phialocephala bamuru</i> MG195534.1	99.64
DSE4	0.24 ± 0.01	Dark brown 	<i>Phialocephala fortinii</i> MT276008.1	99.82
DSE5	0.16 ± 0.01	Dark brown 	<i>Acephala</i> sp. HQ889709.1	98.51