

Table S1. Collection details and GenBank accession numbers of taxa used in the phylogenetic analysis

Species	Isolates	Host	Host family	Other host family	Locality	GenBank accession numbers				References
						ITS	LSU	<i>RPB2</i>	<i>TEF1</i>	
<i>Elsinoe abutilonis</i>	CBS 510.50 ^T	<i>Callianthe striata</i>	Malvaceae		Brazil	KX887185	KX886949	KX887068	KX886831	Fan et al. (2017)
<i>E. akebiae</i>	MUCC 2982 ^T	<i>Akebia trifoliata</i>	Lardizabalaceae		Japan	OQ504591	OQ504615	OQ472906	OQ472926	Ujat et al. (2023)
<i>E. ampelina</i>	CBS 208.25	<i>Vitis vinifera</i>	Vitaceae	Paulowniaceae	Brazil	KX887186	KX886950	KX887069	KX886832	Fan et al. (2017)
<i>E. anacardii</i>	CBS 470.62 ^T	<i>Anacardium occidentale</i>	Anacardiaceae	Annonaceae; Rosaceae	India	KX887189	KX886953	KX887072	KX886835	Fan et al. (2017)
<i>E. annonae</i>	CBS 228.64	<i>Annona</i> sp.	Annonaceae	Theaceae	USA	KX887190	KX886954	KX887073	KX886836	Fan et al. (2017)
<i>E. arachidis</i>	CBS 511.50 ^T	<i>Arachis hypogaea</i>	Fabaceae		Brazil	KX887191	KX886955	KX887074	KX886837	Fan et al. (2017)
<i>E. araliae</i>	MUCC 2997	<i>Aralia elata</i>	Araliaceae		Japan	OQ504590	OQ504614	OQ472905	OQ472925	Ujat et al. (2023)
<i>E. arrudai</i>	CBS 220.50 ^T	<i>Tournefortia breviflora</i>	Boraginaceae		Brazil	KX887194	KX886958	KX887077	KX886840	Fan et al. (2017)
<i>E. asclepiadea</i>	CBS 141937 ^T	<i>Asclepias mellodora</i>	Asclepiadaceae		Brazil	KX887195	KX886959	KX887078	KX886841	Fan et al. (2017)
<i>E. australis</i>	CBS 314.32 ^{ET}	<i>Citrus aurantium</i>	Rutaceae	Simmondsiaceae; Salicaceae	Brazil	KX887198	KX886962	KX887081	KX886844	Fan et al. (2017)
<i>E. banksiae</i>	STE-U 2678 ^T	<i>Banksia serrata</i>	Proteaceae		Australia	AF227197	–	–	–	Swart et al. (2001)
<i>E. banksiicola</i>	CBS 113734 ^T	<i>Banksia prionote</i>	Proteaceae		Australia	KX887199	KX886963	KX887082	KX886845	Fan et al. (2017)
<i>E. barleriicola</i>	CBS 471.62 ^T	<i>Barleria gibsonii</i>	Acanthaceae		India	KX887200	KX886964	KX887083	KX886846	Fan et al. (2017)
<i>E. batatas</i>	EPEb-2	<i>Ipomoea batatas</i>	Convolvulaceae		China	MN266888	MN266891	MN262471	MN262474	Yu et al. (2020)
<i>E. bidentis</i>	CBS 512.50 ^T	<i>Bidens pilosa</i>	Asteraceae		Brazil	KX887201	KX886965	KX887084	KX886847	Fan et al. (2017)
<i>E. brasiliensis</i>	CPC 18528 ^{ET}	<i>Chamaesyce hyssopifolia</i>	Euphorbiaceae		Brazil	KX887204	–	KX887087	KX886850	Fan et al. (2017)
<i>E. caleae</i>	CBS 221.50 ^T	<i>Calea pinnatifida</i>	Asteraceae		Brazil	KX887205	KX886968	KX887088	KX886851	Fan et al. (2017)

<i>E. centrolobii</i>	CBS 222.50 ^T	<i>Centrolobium robustum</i>	Fabaceae	Brazil	KX887206	KX886969	KX887089	KX886852	Fan et al. (2017)
<i>E. citricola</i>	CPC 18535 ^T	<i>Citrus limonia</i>	Rutaceae	Brazil	KX887207	KX886970	KX887090	KX886853	Fan et al. (2017)
<i>E. corni</i>	CBS 148184 ^{ET}	<i>Cornus florida</i>	Cornaceae	USA	ON811491	ON811550	ON803538	–	Crous et al. (2022)
<i>E. coryli</i>	CBS 275.76 ^T	<i>Corylus avellana</i>	Betulaceae	France	KX887209	KX886972	KX887092	KX886855	Fan et al. (2017)
<i>E. diospyri</i>	CBS 223.50 ^T	<i>Diospyros kaki</i>	Ebenaceae	Brazil	KX887210	KX886973	KX887093	KX886856	Fan et al. (2017)
<i>E. eelemani</i>	DAR 83016 ^T	<i>Melaleuca alternifolia</i>	Myrtaceae	Australia	KX372292	–	KX398204	KX398203	Crous et al. (2016)
<i>E. embeliae</i>	CBS 472.62 ^T	<i>Embelia ribes</i>	Primulaceae	India	KX887211	KX886974	–	KX886857	Fan et al. (2017)
<i>E. erythrinae</i>	CPC 18542 ^{ET}	<i>Erythrina</i> sp.	Fabaceae	Brazil	KX887214	KX886977	KX887096	KX886860	Fan et al. (2017)
<i>E. eucalypticola</i>	CBS 124765 ^T	<i>Eucalyptus</i> sp.	Myrtaceae	Australia	KX887215	KX886978	KX887097	KX886861	Fan et al. (2017)
<i>E. eucalyptorum</i>	CBS 120084 ^T	<i>Eucalyptus propinqua</i>	Myrtaceae	Australia	KX887216	KX886979	KX887098	KX886862	Fan et al. (2017)
<i>E. euphorbiae</i>	CBS 401.63 ^T	<i>Euphorbia parviflora</i>	Euphorbiaceae	India	KX887217	KX886980	KX887099	KX886863	Fan et al. (2017)
<i>E. fagarae</i>	CBS 514.50 ^T	<i>Fagara riedelianum</i>	Rutaceae	Brazil	KX887218	KX886981	KX887100	KX886864	Fan et al. (2017)
<i>E. fawcettii</i>	CBS 139.25 ^T	<i>Citrus</i> sp.	Rutaceae	USA	KX887219	KX886982	KX887101	KX886865	Fan et al. (2017)
<i>E. fici</i>	CBS 515.50	<i>Ficus luschnathiana</i>	Moraceae	Brazil	KX887223	KX886986	KX887105	KX886869	Fan et al. (2017)
<i>E. fici-caricae</i>	CBS 473.62 ^T	<i>Ficus carica</i>	Moraceae	India	KX887224	KX886987	KX887106	KX886870	Fan et al. (2017)
<i>E. flacourtiiae</i>	CBS 474.62 ^T	<i>Flacourtia sepiaria</i>	Salicaceae	India	KX887225	KX886988	KX887107	KX886871	Fan et al. (2017)
<i>E. freyliniae</i>	CBS 128204 ^T	<i>Freylinia lanceolata</i>	Scrophulariaceae	South Africa	KX887226	KX886989	KX887108	KX886872	Fan et al. (2017)
<i>E. genipae</i>	CBS 342.39 ^T	<i>Genipa americana</i>	Rubiaceae	Brazil	KX887227	KX886990	KX887109	KX886873	Fan et al. (2017)
<i>E. genipae-americanae</i>	CBS 516.50 ^T	<i>Genipa americana</i>	Rubiaceae	Brazil	KX887228	KX886991	KX887110	KX886874	Fan et al. (2017)
<i>E. glycines</i>	CBS 389.64 ^{ET}	<i>Glycine soja</i>	Fabaceae	Japan	KX887229	KX886992	KX887111	KX886875	Fan et al. (2017)
<i>E. hederiae</i>	CBS 517.50 ^T	<i>Hedera helix</i>	Araliaceae	Brazil	KX887231	KX886994	KX887113	KX886877	Fan et al. (2017)
<i>E. hydrangeae</i>	MUCC 2988 ^T	<i>Hydrangea serrata</i>	Hydrangeaceae	Japan	OQ504583	OQ504607	OQ472898	–	Ujat et al. (2023)

<i>E. ichnocarpi</i>	CBS 475.62 ^T	<i>Ichnocarpus frutescens</i>	Apocynaceae	India	KX887232	KX886995	KX887114	KX886878	Fan et al. (2017)
<i>E. jasmineae</i>	CBS 224.50 ^T	<i>Jasminum sambac</i>	Oleaceae	Brazil	KX887233	KX886996	KX887115	KX886879	Fan et al. (2017)
<i>E. jasminicola</i>	CBS 212.63 ^T	<i>Jasminum malabaricum</i>	Oleaceae	India	KX887234	KX886997	–	KX886880	Fan et al. (2017)
<i>E. krugii</i>	CPC 18531 ^{ET}	<i>Euphorbia heterophylla</i>	Euphorbiaceae	Brazil	KX887235	KX886998	KX887116	KX886881	Fan et al. (2017)
<i>E. lagoa-santensis</i>	CBS 518.50 ^T	<i>Byrsonima coccolobifolia</i>	Malpighiaceae	Brazil	KX887239	KX887002	KX887120	KX886885	Fan et al. (2017)
<i>E. ledi</i>	CBS 167.33 ^{ET}	<i>Rhododendron neoglandulosum</i>	Ericaceae	USA	KX887240	KX887003	KX887121	KX886886	Fan et al. (2017)
<i>E. lepagei</i>	CBS 225.50 ^T	<i>Manilkara zapota</i>	Sapotaceae	N/A	KX887241	KX887004	KX887122	–	Fan et al. (2017)
<i>E. leucopogonis</i>	CBS 144439 ^T	<i>Leucopogon</i> sp.	Ericaceae	Australia	MH327822	MH327858	MH327874	–	Crous et al. (2018)
<i>E. leucospermi</i>	CBS 111207 ^T	<i>Leucospermum</i> sp.	Proteaceae	South Africa	KX887242	KX887005	KX887123	KX886887	Fan et al. (2017)
<i>E. leucospila</i>	T1	<i>Camellia sinensis</i>	Theaceae	China	MK312256	MK793793	MK814963	–	Lingyun et al. (2020)
<i>E. lippiae</i>	CBS 166.40 ^T	<i>Phyla lanceolata</i>	Verbenaceae	USA	KX887248	KX887011	KX887129	KX886893	Fan et al. (2017)
<i>E. mangiferae</i>	CBS 226.50 ^T	<i>Mangifera foetida</i>	Anacardiaceae	Cuba	KX887249	KX887012	KX887130	KX886894	Fan et al. (2017)
<i>E. masingae</i>	CMW 58888 ^T	<i>Eucalyptus grandis</i> × <i>nitens</i>	Myrtaceae	South Africa	OQ678312	OQ678293	OQ676157	OQ676176	Roux et al. (2024)
<i>E. mattirolaanum</i>	CBS 287.64	<i>Arbutus unedo</i>	Ericaceae	Argentina	KX887250	KX887013	KX887131	KX886895	Fan et al. (2017)
<i>E. menthae</i>	CBS 322.37 ^{ET}	<i>Mentha piperita</i>	Lamiaceae	USA	KX887253	KX887016	KX887134	KX886898	Fan et al. (2017)
<i>E. mimosae</i>	CPC 19478 ^{ET}	<i>Mimosa invisa</i>	Fabaceae	Brazil	KX887255	KX887018	KX887136	KX886900	Fan et al. (2017)
<i>E. murrayae</i>	NL1	<i>Salix babylonica</i>	Salicaceae	China	MF099859	MF099858	MF136621	MF136622	Zhao et al. (2018)
<i>E. necatrix</i>	CMW 56134 ^T	<i>Eucalyptus</i> sp.	Myrtaceae	Indonesia	MW079505	MW079523	MW086715	MW086729	Pham et al. (2021)
<i>E. oleae</i>	CBS 227.59 ^T	<i>Olea europaea</i>	Oleaceae	Italy	KX887256	KX887019	KX887137	KX886901	Fan et al. (2017)
<i>E. othonnae</i>	CBS 139910 ^T	<i>Othonna quinqueidentata</i>	Asteraceae	South Africa	KR476726	–	MK540083	–	Marin-Felix et al. (2018)
<i>E. parthenocissi</i>	CBS 146969	<i>Parthenocissus quinquefolia</i>	Vitaceae	New Zealand	ON811492	ON811551	ON803539	–	Crous et al. (2022)
<i>E. perseae</i>	CBS 406.34 ^T	<i>Persea americana</i>	Lauraceae	USA	KX887258	KX887021	KX887139	KX886903	Fan et al. (2017)

<i>E. phaseoli</i>	CBS 165.31 ^T	<i>Phaseolus lunatus</i>	Fabaceae	Cuba	KX887263	KX887026	KX887144	KX886908	Fan et al. (2017)
<i>E. picconiae</i>	CBS 145026 ^T	<i>Picconia excelsa</i>	Oleaceae	Spain	MK539951	MK540022	MK540081	–	Marin-Felix et al. (2018)
<i>E. piperitae</i>	CBS 144615 ^T	<i>Eucalyptus piperita</i>	Myrtaceae	Australia	MN161914	MN162185	MN162577	OR523235	Crous et al. (2019a); This study
<i>E. piri</i>	CBS 163.29	<i>Pyrus communis</i>	Rosaceae	N/A	KX887267	KX887030	KX887148	KX886912	Fan et al. (2017)
<i>E. pitangae</i>	CBS 227.50 ^T	<i>Eugenia pitanga</i>	Myrtaceae	Brazil	KX887269	KX887032	KX887150	KX886914	Fan et al. (2017)
<i>E. poinsettiae</i>	CBS 109333	<i>Euphorbia pulcherrima</i>	Euphorbiaceae	Guatemala	KX887270	KX887033	KX887151	KX886915	Fan et al. (2017)
<i>E. pongamiae</i>	CBS 402.63 ^{ET}	<i>Pongamia pinnata</i>	Fabaceae	India	KX887272	KX887035	KX887153	KX886917	Fan et al. (2017)
<i>E. populi</i>	CBS 289.64	<i>Populus deltoides</i> subsp. <i>deltoides</i>	Salicaceae	Argentina	KX887273	KX887036	KX887154	KX886918	Fan et al. (2017)
<i>E. preissianae</i>	CBS 142129 ^T	<i>Eucalyptus preissiana</i>	Myrtaceae	Australia	KY173406	KY173498	–	OR523236	Crous et al. (2016); This study
<i>E. proteae</i>	STE-U 1349 ^T	<i>Protea cynaroides</i>	Proteaceae	South Africa	AF097578	–	–	–	Swart et al. (2001)
<i>E. protearum</i>	CBS 113618 ^T	<i>Protea</i> sp.	Proteaceae	Zimbabwe	KX887275	KX887038	KX887156	KX886920	Fan et al. (2017)
<i>E. punicae</i>	CPC 19968	<i>Punica granatum</i>	Lythraceae	South Africa	KX887276	KX887039	KX887157	KX886921	Fan et al. (2017)
<i>E. quercus-ilicis</i>	CBS 232.61 ^T	<i>Quercus ilex</i>	Fagaceae	Italy	KX887277	KX887040	–	KX886922	Fan et al. (2017)
<i>E. randii</i>	CBS 170.38 ^{isoT}	<i>Carya</i> sp.	Juglandaceae	Brazil	KX887278	KX887041	KX887158	KX886923	Fan et al. (2017)
<i>E. rhois</i>	CBS 519.50 ^T	<i>Toxicodendron vernix</i>	Anacardiaceae	Brazil	KX887280	KX887043	KX887160	KX886925	Fan et al. (2017)
<i>E. ricini</i>	CBS 403.63	<i>Ricinus communis</i>	Euphorbiaceae	India	KX887281	KX887044	KX887161	KX886926	Fan et al. (2017)
<i>E. rosarum</i>	CBS 212.33 ^{ET}	<i>Rosa</i> sp.	Rosaceae	USA	KX887283	KX887046	KX887163	KX886928	Fan et al. (2017)
<i>E. salicina</i>	CPC 17824 ^T	<i>Salix</i> sp.	Salicaceae	USA	KX887286	KX887049	KX887166	KX886931	Fan et al. (2017)
<i>E. salignae</i>	CBS 145552 ^T	<i>Eucalyptus saligna</i>	Myrtaceae	Australia	MK876389	MK876430	MK876485	OR523237	Crous et al. (2019b); This study
<i>E. semecarpi</i>	CBS 477.62 ^T	<i>Melanochyla caesia</i>	Anacardiaceae	India	KX887287	KX887050	KX887167	KX886932	Fan et al. (2017)
<i>E. sesseae</i>	CPC 18549	<i>Cestrum laevigatum</i>	Solanaceae	Brazil	KX887288	KX887051	KX887168	KX886933	Fan et al. (2017)
<i>E. sicula</i>	CBS 398.59 ^T	<i>Prunus amygdalus</i>	Rosaceae	Italy	KX887289	KX887052	KX887169	KX886934	Fan et al. (2017)

<i>E. solidaginis</i>	CBS 191.37 ^{ET}	<i>Solidago fistulosa</i>	Asteraceae		USA	KX887290	KX887053	KX887170	KX886935	Fan et al. (2017)
<i>E. sumire</i>	MUCC 2992 ^T	<i>Viola</i> sp.	Violaceae		Japan	OQ504585	OQ504609	OQ472900	OQ472920	Ujat et al. (2023)
<i>E. tanashiensis</i>	MUCC 3466 ^T	<i>Populus</i> sp.	Salicaceae		Japan	OQ504582	OQ504606	OQ472897	OQ472918	Ujat et al. (2023)
<i>E. tectiferae</i>	CBS 124777 ^T	<i>Eucalyptus tectifera</i>	Myrtaceae		Australia	KX887292	KX887055	KX887172	KX886937	Fan et al. (2017)
<i>E. terminaliae</i>	CBS 343.39 ^{ET}	<i>Terminalia catappa</i>	Combretaceae		Brazil	KX887293	KX887056	KX887173	–	Fan et al. (2017)
<i>E. theae</i>	CBS 228.50 ^T	<i>Camellia sinensis</i>	Theaceae		Brazil	KX887295	KX887058	KX887175	KX886939	Fan et al. (2017)
<i>E. tiliae</i>	CBS 350.73	<i>Tilia cordata</i>	Malvaceae		New Zealand	KX887296	KX887059	KX887176	KX886940	Fan et al. (2017)
<i>E. tsujii</i>	MUCC 2991	<i>Paulownia tomentosa</i>	Paulowniaceae		Japan	OQ504584	OQ504608	OQ472899	OQ472919	Ujat et al. (2023)
<i>E. veneta</i>	CBS 164.29 ^{ET}	<i>Rubus</i> sp.	Rosaceae		N/A	KX887297	KX887060	KX887177	KX886941	Fan et al. (2017)
<i>E. verbenae</i>	CPC 18561 ^{ET}	<i>Verbena bonariensis</i>	Verbenaceae		Brazil	KX887298	KX887061	KX887178	KX886942	Fan et al. (2017)
<i>E. veronicae</i>	CBS 145362 ^T	<i>Veronica</i> sp.	Plantaginaceae		New Zealand	MK539952	MK540023	MK540082	–	Marin-Felix et al. (2018)
<i>E. violae</i>	CBS 336.35 ^T	<i>Viola</i> sp.	Violaceae	Caprifoliaceae	USA	KX887302	KX887065	KX887182	KX886946	Fan et al. (2017)
<i>E. zizyphi</i>	CBS 378.62 ^T	<i>Ziziphus rugosa</i>	Rhamnaceae		India	KX887303	KX887066	KX887183	KX886947	Fan et al. (2017)

CBS = culture collection of the Westerdijk Fungal Biodiversity Institute, Utrecht, The Netherlands; CMW = culture collection of the Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa; CPC = culture collection of Pedro Crous, housed at the Westerdijk Fungal Biodiversity Institute; DAR = Pathology Herbarium, New South Wales, Australia; MUCC = culture collection of the Mycological Herbarium, Mie University, Japan; STE-U = culture collection of the Department of Plant Pathology, University of Stellenbosch, South Africa.

^T = ex-type, ^{ET} = ex-epitype, ^{ISO^T} = ex-isotype strains.

ITS = internal transcribed spacer regions 1 and 2 including the 5.8S region of rRNA; LSU = nuclear large subunit (28S) of rRNA; *RPB2* = DNA-directed RNA polymerase II second largest subunit gene; *TEF1* = translation elongation factor 1-alpha gene.

Sequences obtained in this study are indicated in bold.

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Phylogenetic analyses:

Phylogenetic analysis was conducted as described by Pham et al. (2021). All sequences were aligned using MAFFT v. 7

(<http://mafft.cbrc.jp/alignment/server/>) (Kato & Standley, 2013), then confirmed visually in MEGA v. 7 (Kumar et al., 2016) where necessary.

Maximum likelihood (ML) was conducted for the combined data set of ITS, LSU, *RPB2* and *TEF1* regions, using RaxML v. 8.2.4 on the CIPRES

Science Gateway v. 3.3 (Stamatakis, 2014) with default GTR substitution matrix and 1,000 rapid bootstraps. *Myriangium hispanicum* (CBS 347.33) was used as the outgroup taxon