

Supplementary material

Table S1 – Results of PCR amplification targeting the ITS1 region of ginkgo and a universal eukaryotic DNA region of several relevant plant species for cross-reactivity testing

Common name	Plant species	Source	End-point PCR	
			18S rRNA (EG-F/EG-R)	ITS1 (Gkb2-F/Gkb2-R)
Ginkgo	<i>Ginkgo biloba</i>	Botanical Garden of Univ. Porto, Portugal	+	+
Ginkgo	<i>Ginkgo biloba</i>	Botanical Garden of Bern, Switzerland	+	+
Ginkgo	<i>Ginkgo biloba</i>	Botanical Garden of Madeira, Portugal	+	+
Ginkgo	<i>Ginkgo biloba</i>	Serralves Garden, Porto, Portugal	+	+
Japanese pagoda tree	<i>Sophora japonica</i>	USDA Grin, Univ. of Arizona Herbarium (Tucson, USA)	+	-
Arizona mescal bean	<i>Sophora arizonica</i>	Kew Gardens (West Sussex, UK)	+	-
Buckwheat	<i>Fagopyrum esculentum</i> Moench	Commercial	+	-
Fringeleaf necklacepod	<i>Sophora stenophylla</i>	Kew Gardens (West Sussex, UK)	+	-
Kōwhai	<i>Sophora microphylla</i> x <i>godleyi</i>	Kew Gardens (West Sussex, UK)	+	-
Prince herb	<i>Cymbopogon citratus</i>	Commercial	+	-
Fennel	<i>Foeniculum vulgare</i>	Commercial	+	-
Dandelion	<i>Taraxacum officinales</i>	Commercial	+	-
Field horsetail	<i>Equisetum arvense</i>	Commercial	+	-
Lemon balm	<i>Melissa officinalis</i>	Viseu, Portugal	+	-
Chamomile	<i>Matricaria chamomilla</i>	Commercial	+	-
Tea plant	<i>Camellia sinensis</i>	Commercial	+	-
Salvia	<i>Salvia officinalis</i>	Commercial	+	-
Mentha piperita	<i>Mentha x piperita</i>	Commercial	+	-
Borututu	<i>Cochlospermum angolense</i>	Commercial	+	-
Gorse	<i>Pterospartum tridentatum</i>	Commercial	+	-
Mallow	<i>Malva sylvestris</i>	Commercial	+	-
Alexandrian senna	<i>Senna alexandrina</i> Mill	Commercial	+	-
Mate herb	<i>Ilex paraguariensis</i>	Commercial	+	-
Linden	<i>Tilia argentea</i>	Commercial	+	-
Bearberry	<i>Arctostaphylos uva-ursi</i> L.	Commercial	+	-
Herb-Robert	<i>Geranium robertianum</i> L.	Commercial	+	-
Artichoke	<i>Cynara scolymus</i> L.	Univ. Lisbon, Portugal	+	-
Passiflora	<i>Passiflora incarnata</i> L.	Commercial	+	-
Boldo	<i>Peumus boldus</i>	Commercial	+	-
Verbena	<i>Verbena officinalis</i> L.	Commercial	+	-
Hawthorn	<i>Crataegus monogyna</i> Jacq	Commercial	+	-
Valeriana	<i>Valeriana officinalis</i> L.	Commercial	+	-
Milk thistle herb	<i>Silybum marianum</i> L.	Commercial	+	-
Lemon verbena	<i>Aloysia citrodora</i>	Commercial	+	-
St John's wort	<i>Hypericum perforatum</i>	Commercial	+	-
Hiperição do Gerês	<i>Hypericum androsaemum</i>	Amarante, Portugal	+	-
Eucalyptus	<i>Eucalyptus obliqua</i> L'Hér	Coimbra, Portugal	+	-
Turmeric	<i>Curcuma longa</i> L.	Commercial	+	-
Ginger	<i>Zingiber officinale</i>	Commercial	+	-
Oregano	<i>Origanum vulgare</i> L.	Commercial	+	-
Basil	<i>Ocimum basilicum</i> L.	Commercial	+	-
Coriander	<i>Coriandrum sativum</i> L.	Commercial	+	-
Tomato	<i>Solanum lycopersicum</i>	Commercial	+	-
Onion	<i>Allium cepa</i>	Commercial	+	-
Parsley	<i>Petroselinum crispum</i>	Commercial	+	-
Pepper	<i>Piper</i> spp.	Commercial	+	-
Bay Leaf	<i>Laurus nobilis</i>	Commercial	+	-

Almond	<i>Prunus dulcis</i>	Commercial	+	-
Hazelnut	<i>Corylus avellana</i>	Commercial	+	-
Chestnut	<i>Castanea sativa</i>	Commercial	+	-
Peanut	<i>Arachis hypogaea</i>	Commercial	+	-
Walnut	<i>Juglans regia</i> L.	Viseu, Portugal	+	-
Horse chestnut	<i>Aesculus hippocastanum</i> L.	Viseu, Portugal	+	-
Pine nut	<i>Pinus pinea</i>	Commercial	+	-
Soybean	<i>Glycine max</i> L.	Commercial	+	-
Sunflower	<i>Helianthus annuus</i>	Commercial	+	-
Pumpkin	<i>Cucurbita mixta</i>	Commercial	+	-
Rapeseed	<i>Brassica napus</i>	Commercial	+	-
Lupine	<i>Lupinus albus</i>	Commercial	+	-
Fava bean	<i>Vicia faba</i>	Commercial	+	-
Olive	<i>Olea europaea</i> L.	Commercial	+	-
Wheat	<i>Triticum aestivum</i>	Commercial	+	-
Barley	<i>Hordeum vulgare</i>	Commercial	+	-
Rye	<i>Secale cereale</i>	Commercial	+	-
Oat	<i>Avena sativa</i>	Commercial	+	-
Rice	<i>Oryza sativa</i>	Commercial	+	-
Fig	<i>Ficus carica</i> L.	Viseu, Portugal	+	-
Bitter orange	<i>Citrus aurantium</i> L.	Commercial	+	-
Cherry	<i>Prunus avium</i> L.	Commercial	+	-
Peach	<i>Prunus persica</i>	Commercial	+	-
Plum	<i>Prunus domestica</i>	Commercial	+	-
Apricot	<i>Prunus armeniaca</i>	Commercial	+	-
Vine	<i>Vitis vinifera</i> L.	Commercial	+	-
Blackberry	<i>Morus</i> spp.	Commercial	+	-
Strawberry	<i>Fragaria</i> spp.	Commercial	+	-
Mango	<i>Mangifera indica</i> L.	Commercial	+	-
Pineapple	<i>Ananas comosus</i>	Commercial	+	-

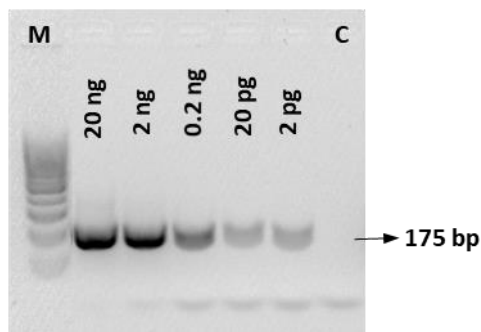


Fig. S1. Agarose gel electrophoresis of PCR fragments of ITS1 region of *Ginkgo biloba* serially diluted DNA extracts. M, 100 bp DNA ladder (Bioron, Ludwigshafen, Germany); C, negative control.

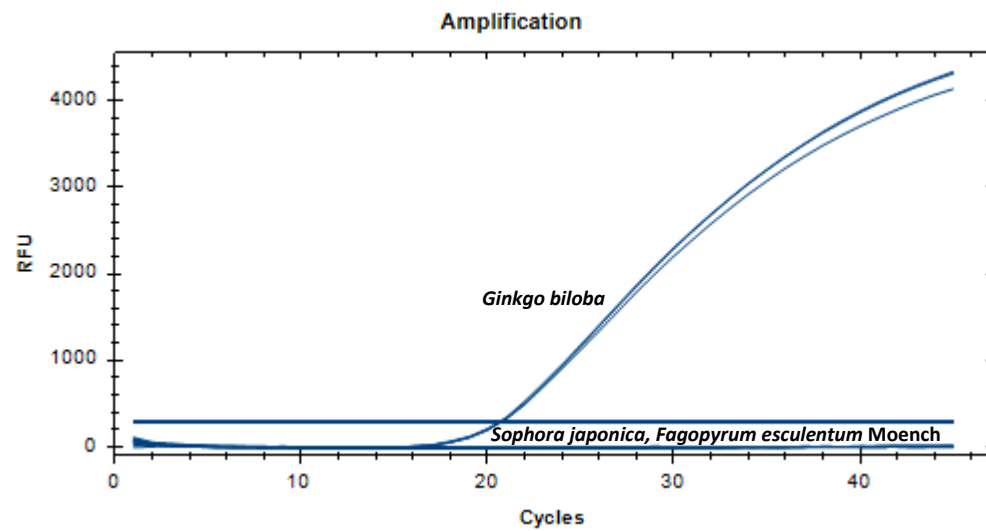


Fig. S2. Amplification curves of a real-time PCR assay with a hydrolysis probe targeting ITS1 region of *G. biloba* to assess the reactivity with *Sophora japonica* and *Fagopyrum esculentum* Moench.