

Supplementary material

Table S1. Results of PCR amplification targeting the ITS2, *matK* and *lectin* genes of argan, olive and soybean, respectively, and a universal eukaryotic DNA region of several relevant plant species for cross-reactivity testing.

Common name	Plant species	Qualitative PCR			
		18S rRNA (EG-F/R)	ITS2 (ITS2A-F/R)	<i>matK</i> (matKO-F/R)	Lectin (LE1/LE2)
Argan	<i>Argania spinosa</i>	+	+	-	-
Olive	<i>Olea europaea</i>	+	-	+	-
Soybean	<i>Glycine max</i>	+	-	-	+
Sunflower	<i>Helianthus annuus</i>	+	-	-	-
Rapeseed	<i>Brassica napus</i>	+	-	-	-
Maize	<i>Zea mays</i>	+	-	-	-
Almond	<i>Prunus dulcis</i>	+	-	-	-
Brazil nut	<i>Bertholletia excelsa</i>	+	-	-	-
Cashew nut	<i>Anacardium occidentale</i>	+	-	-	-
Hazelnut	<i>Corylus avellana</i>	+	-	-	-
Macadamia nut	<i>Macadamia tetraphylla</i>	+	-	-	-
Pine nut	<i>Pinus pinea</i>	+	-	-	-
Pistachio	<i>Pistacia vera</i>	+	-	-	-
Walnut	<i>Juglans regia</i>	+	-	-	-
Peanut	<i>Arachis hypogaea</i>	+	-	-	-
Oat	<i>Avena sativa</i>	+	-	-	-
Rye	<i>Secale cereale</i>	+	-	-	-

Table S2. Commercial argan oil samples tested PCR amplification targeting the ITS2, *matK* and *lectin* genes of argan, olive and soybean, respectively.

Sample	Application	Label	Qualitative PCR		
			ITS2 (ITS2A-F/R)	<i>matK</i> (matKO-F/R)	Lectin (LE1/LE2)
S1	Cosmetic	Huile d'Argane (non-torrieffée) (Produit Biologique, Marocco)	+	-	-
S2	Cosmetic	Huile d'Argane (Visage, corps et cheveux) (Bio, Marocco)	+	-	-
S3	Cosmetic	Huile d'Argane, beauté (100% naturel, Bio, Marocco)	+	-	-
S4	Food	Huile d'Argane Alimentaire (Produit Biologique, IGP, Marocco)	+	-	-
S5	Food	Huile Vierge Argan Alimentaire (Torréfié Pressée à Froid, Bio, Marocco)	+	-	-

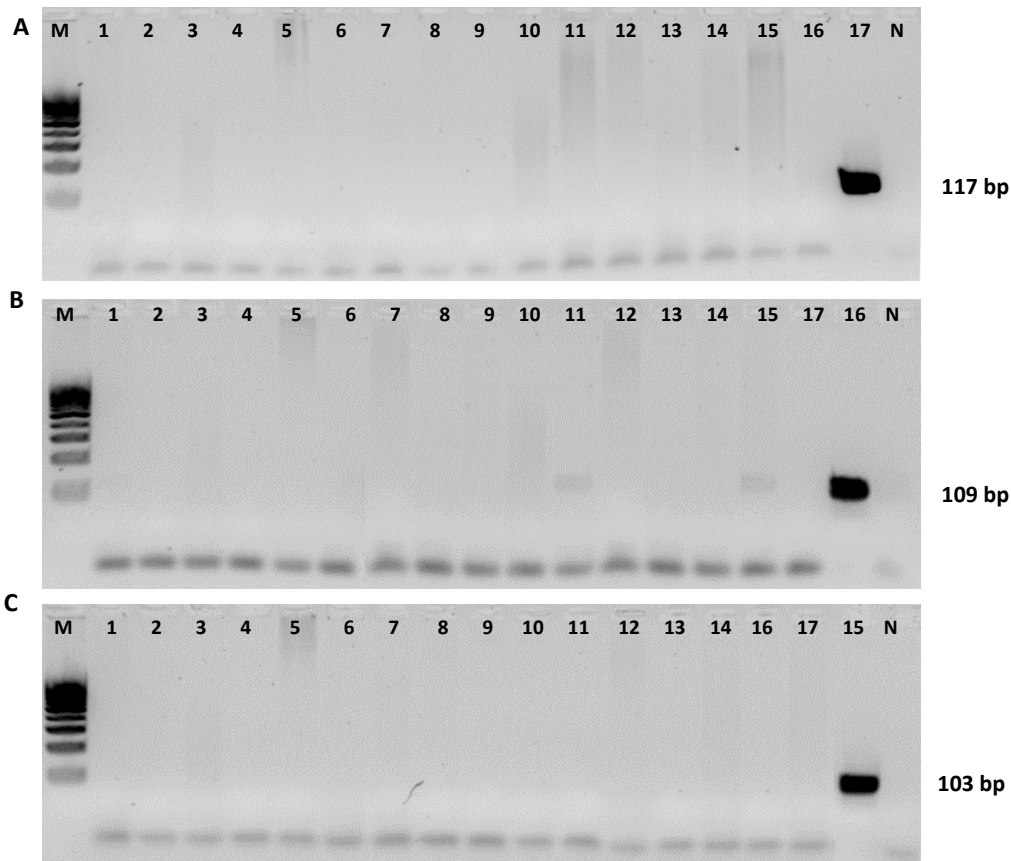


Figure S1. Agarose gel electrophoresis of PCR products targeting ITS, *matK* and *lectin* genes of *A. spinosa* (A), *O. europaea* (B) and *G. max* (C), respectively, for cross-reactivity assessment. Legend: Lane M, 100 bp molecular marker (Bioron, Ludwigshafen, Germany); lane 1, macadamia nut; lane 2, cashew nut; lane 3, peanut; lane 4, almond; lane 5, walnut; lane 6, hazelnut; lane 7, Brazil nut; lane 8, pine nut; lane 9, pistachio nut; lane 10, rapeseed; lane 11, sunflower; lane 12, oat; lane 13, rye; lane 14, maize; lane 15, soybean; lane 16, olive; lane 17, argan; lane N, negative control.

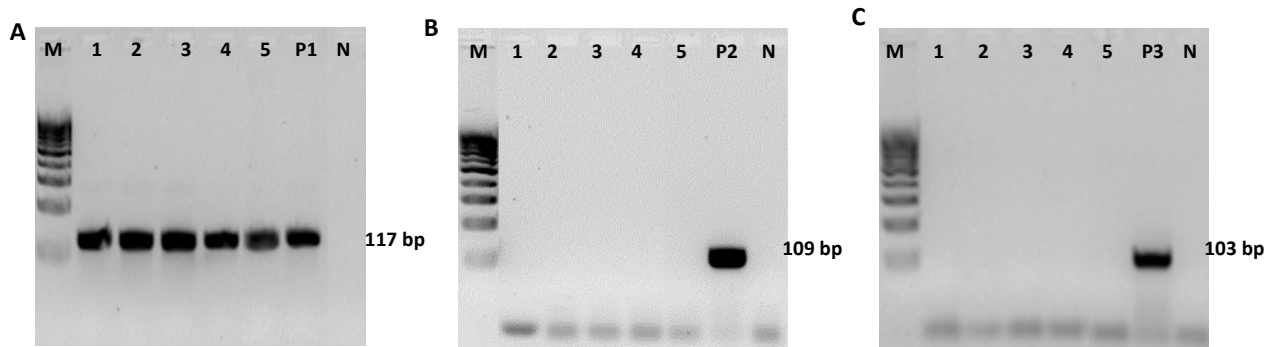


Figure S2. Agarose gel electrophoresis of PCR products targeting ITS, *matK* and *lectin* genes of *A. spinosa* (A), *O. europaea* (B) and *G. max* (C), respectively, in commercial samples of argan food or cosmetic oils. Legend: lane M, DNA 100 bp molecular marker (Bioron, Ludwigshafen, Germany); lanes 1-3, argan oil cosmetic grade S1, S2 and S3, respectively; lanes 4 and 5, argan oil food grade S4 and S5, respectively; lane P1, positive control for argan; lane P2, positive control for olive; lane P3, positive control for soybean; lane N, negative control.