S5 Table. Optimized BLAST similarity identifications per sample. Identifications are assigned based on a combination of the identity score (High identity: $i \ge 95\%$; Medium identity: $90\% \le i < 95\%$; Low identity: i < 90%) and the number of species within 1% deviation of the calculated similarity score.

Comple	Marker	Idontitu	10/ ton hito	Confidence					Identification
Sample Kh001	Marker ITS	Identity 96	5 1% top nits	Confidence High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Identification Cuminum cyminum
Kh001 Kh003	trnL-F ITS	100 99	3	High identity (i>95%). 1 speci	ies within 1% dev	viation of top hit. Spec viation of top hit. Gen	cies-level confidence.	Osmorhiza bipatriata Nepeta sp.
Kh003	trnL-F	99	1	High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Nepeta racemosa
Kh004 Kh004	ITS trnL-F	91 99	2				in 1% deviation of top riation of top hit. Gen	hit. Genus-level confidence.	Satureja sp. Satureja sp.
Kh007	ITS	92	1					hit. Genus-level confidence.	Echium sp.
Kh007 Kh008	trnL-F ITS	92 92	3	Medium identity (90	% <i<95%< td=""><td>). 1 species withi</td><td>n 1% deviation of top</td><td>hit. Genus-level confidence.</td><td>Echium sp.</td></i<95%<>). 1 species withi	n 1% deviation of top	hit. Genus-level confidence.	Echium sp.
Kh008	trnL-F	99	7				riation of top hit. Gen		Thymus sp. Thymus sp.
Kh009 Kh009	ITS trnL-F	98 100	0	High identity (i>95%					Unidentified Unidentified
Kh010	trnL-F	99	1	High identity (i>95% High identity (i>95%			riation of top hit. Spec	cies-level confidence.	Hymenocrater bituminosus
Kh011 Kh011	ITS trnL-F	94 99	1 2				n 1% deviation of top	hit. Genus-level confidence.	Anthemis sp. Artemisia sp.
Kh012	ITS	95	1					cies-level confidence.	Althaea cannabina
Kh016	ITS trnL-F	100	3 7				riation of top hit. Gen		Thymus sp.
Kh016 Kh017	ITS	99 98	2	High identity (i>95%). 2 speci	ies within 1% dev	riation of top hit. Generation of top hit. Generation	us-level confidence.	Thymus sp. Achillea sp.
Kh017 Kh018	trnL-F ITS	99 89	16 5				eviation of top hit. Ger	nus-level confidence.	Achillea sp. Lamiaceae
Kh018	trnL-F	98	5					op hit. Family-level confidence	Lamiaceae
Kh019 Kh020	trnL-F trnL-F	99 100	17 17	High identity (i>95%). 9 speci	ies within 1% dev	riation of top hit. Geni	us-level confidence.	Teucrium sp.
Kh021	ITS	100	1 1					top hit. Family-level confidence cies-level confidence.	Lamiaceae Althaea armeniaca
Kh023	trnL-F	94	3					hit. Genus-level confidence.	Teucrium sp.
Kh024 kh024	ITS trnL-F	100 99	3 11				viation of top hit. General viation of top hit. General		Thymus sp. Thymus sp.
Kh025	ITS	100	2	High identity (i>95%). 2 speci	ies within 1% dev	riation of top hit. Geni	us-level confidence.	Carthamus sp.
Kh028 Kh028	ITS trnL-F	100 97	0	High identity (i>95%			viation of top hit. Spect No identification.	des-level confidence.	Hypericum scabrum Unidentified
Kh031	ITS trol_E	90 100	0	Medium identity (90	% <i<95%< td=""><td>). Query coverag</td><td>e < 70% No identifica</td><td>ation. cies-level confidence.</td><td>Unidentified Physalis alkekengi</td></i<95%<>). Query coverag	e < 70% No identifica	ation. cies-level confidence.	Unidentified Physalis alkekengi
Kh031 Kh032	trnL-F trnL-F	99	6	High identity (i>95%). 4 speci	ies within 1% dev	riation of top hit. Geni		Physalis alkekengi Ephedra sp.
kh033	trnL-F	99	0	High identity (i>95%). Query	coverage < 70%	No identification.		Unidentified
Kh034 Kh036	trnL-F ITS	100 99	2 4				viation of top hit. General viation of top hit. Spec		Fraxinus sp. Viola alba
Kh036	trnL-F	99	8	High identity (i>95%). 5 speci	ies within 1% dev	riation of top hit. Gen	us-level confidence.	Viola sp.
Kh038 Kh039	ITS ITS	100 89	1 2	Low identity (i<90%). 2 spec	ies within 1% dev	viation of top hit. Fam	ily-level confidence	Cuminum cyminum Plantaginaceae
Kh039 Kh044	trnL-F ITS	99 99	2 4				riation of top hit. Gen		Plantago sp.
Kh045	ITS	93	1				riation of top hit. General in 1% deviation of top	hit. Genus-level confidence.	Berberis sp. Bunium sp.
Kh045	trnL-F	80	1 1	Low identity (i<90%	 1 spec 	ies within 1% dev	iation of top hit. Fam		Apiaceae
Kh048 kh048	ITS trnL-F	98 99	1					cies-level confidence.	Zosima absinthifolia Zosima absinthifolia
Kh051	trnL-F	98	1 1					cies-level confidence.	Hymenocrater bituminosus
Kh053 Kh053	ITS trnL-F	84 100	1				viation of top hit. Fam viation of top hit. Spec	cies-level confidence.	Lamiaceae Mentha arvensis
Kh055	trnL-F	97	1					cies-level confidence.	Nepeta menthoides
Kh056 Kh056	ITS trnL-F	98 98	5				riation of top hit. Spec riation of top hit. Gen	cies-level confidence. us-level confidence.	Allium atroviolaceum Allium sp.
Kh057 Kh057	ITS	100	3 7	High identity (i>95%). 3 speci	ies within 1% dev	riation of top hit. Geni	us-level confidence.	Thymus sp.
Kh058	trnL-F ITS	76 99	2				viation of top hit. Fam viation of top hit. Gen		Lamiaceae Achillea sp.
Kh058	trnL-F	99 95	33				eviation of top hit. Ger		Achillea sp.
Kh059 Kh062	ITS trnL-F	99	6	High identity (i>95%). 4 speci	ies within 1% dev	riation of top hit. Geni	cies-level confidence. us-level confidence.	Alcea acaulis Mentha sp.
Kh063 Kh063	ITS trnL-F	97 98	1 1					cies-level confidence. cies-level confidence.	Tanacetum turcomanicum
Kh065	trnL-F	99	11	High identity (i>95%). 11 spe	cies within 1% de	viation of top hit. Ger	nus-level confidence.	Artemisia lagocephala Thymus sp.
Kh066 Kh067	trnL-F trnL-F	99 99	17				eviation of top hit. Ger viation of top hit. Fam		Teucrium sp. Lamiaceae
Kh068	ITS	99	13	High identity (i>95%). 13 spe	cies within 1% de	eviation of top hit. Ger	nus-level confidence.	Alcea sp.
Kh069 Kh069	ITS trnL-F	100 99	3 11				riation of top hit. General viation of top hit. General		Thymus sp. Thymus sp.
Kh070	ITS	99	1	High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Satureja hortensis
Kh070 Kh071	trnL-F ITS	99 95	1 1					cies-level confidence. cies-level confidence.	Satureja hortensis Bunium capillifolium
Kh071	trnL-F	97	4	High identity (i>95%). 4 speci	ies within 1% dev	riation of top hit. Fam	ily-level confidence	Apiaceae
Kh073 Kh074	trnL-F ITS	97 90	3				riation of top hit. Spec le < 70% No identification	cies-level confidence.	Teucrium polium Unidentified
Kh074	trnL-F	99	1	High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Perovskia abrotanoides
Kh075 Kh076	trnL-F ITS	99 96	30					top hit. Family-level confidence cies-level confidence.	Lamiaceae Tripleurospermum maritimum
Kh076	trnL-F	97	2	High identity (i>95%). 2 speci	ies within 1% dev	riation of top hit. Geni	us-level confidence.	Artemisia sp.
Kh082 Kh090	trnL-F ITS	99 96	4				riation of top hit. Spec riation of top hit. Gen		Hymenocrater bituminosus Satureja sp.
Kh090	trnL-F	99	3	High identity (i>95%). 3 speci	ies within 1% dev	riation of top hit. Geni	us-level confidence.	Satureja sp.
Kh095 Kh095	ITS trnL-F	97 98	3				riation of top hit. Generation of top hit. Spec	us-level confidence. cies-level confidence.	Tanacetum sp. Artemisia lagocephala
Kh102	ITS	99	1	High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Papaver bracteatum
Kh102 Kh108	trnL-F trnL-F	95 99	2 16				viation of top hit. General eviation of top hit. General		Papaver sp. Teucrium sp.
Kh110	trnL-F	99	1	High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Achillea wilhelmsii
Kh111 Kh111	ITS trnL-F	99 94	12				viation of top hit. General in 1% deviation of top	hit. Genus-level confidence.	Amaranthus sp. Amaranthus sp.
Kh112	trnL-F	100	17	High identity (i>95%). 17 spe	cies (2 genera) w	ithin 1% deviation of	top hit. Family-level confidence	Lamiaceae
Kh113 Kh113	ITS trnL-F	94 99	6	High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Echium sp. Lobostemon fruticosus
Kh114 Kh115	ITS ITS	99 93	1					cies-level confidence. hit. Genus-level confidence.	Alcea koelzii Bunium sp.
Kh115	trnL-F	97	2	High identity (i>95%). 2 speci	ies within 1% dev	riation of top hit. Fam	ily-level confidence	Apiaceae
Kh116 Kh116	ITS trnL-F	100 98	2 3	High identity (i>95%). 2 speci	ies within 1% dev	riation of top hit. Gen	us-level confidence.	Berberis sp. Berberis sp.
Kh117	ITS	100	3	High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Urtica dioica
Kh117 Kh118	trnL-F ITS	100 99	1					cies-level confidence. cies-level confidence.	Urtica dioica Astragalus commixtus
Kh118	trnL-F	97	4	High identity (i>95%). 4 speci	ies within 1% dev	riation of top hit. Gen	us-level confidence.	Astragalus sp.
Kh132 Kh132	ITS trnL-F	100 100	2 2				riation of top hit. Gen	us-level confidence. cies-level confidence.	Astragalus sp. Astragalus edulis
Kh133	ITS	99	2	High identity (i>95%). 1 speci	ies within 1% dev	riation of top hit. Spec	cies-level confidence.	Zataria multiflora
Kh133 Kh135	trnL-F trnL-F	100 95	1 1					cies-level confidence. cies-level confidence.	Pentapleura subulifera Pentaplaris doroteae
Kh138	ITS	93	1	Medium identity (90	% <i<95%< td=""><td>). 1 species withi</td><td>in 1% deviation of top</td><td>hit. Genus-level confidence.</td><td>Bunium sp.</td></i<95%<>). 1 species withi	in 1% deviation of top	hit. Genus-level confidence.	Bunium sp.
Kh138 Kh141	trnL-F ITS	87 90	1 1				viation of top hit. Fam	ily-level confidence hit. Genus-level confidence.	Apiaceae Pimpinella sp.
Kh141	trnL-F	90	1					hit. Genus-level confidence.	Heteromorpha sp.