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Biodiversity Assessment in *Tecoma* Species Using Micro-morphometric, Phytochemical and Molecular Descriptors Aided by Multivariate Analysis

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Supplementary Information

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Table S1. *Tecoma* species and cultivars under study along with their collection areas and voucher specimen codes.

Plant name	Collection area	Voucher specimen codes
Tecoma capensis Lindl.	St. Mina monastery garden, King Mariot, Borg El Arab, Alexandria, Egypt	No. 11-1-2017I
T. capensis var. yellow	Mazhar Botanical garden, 26th July corridor, Imbaba, Giza, Egypt	No. 11-1-2017II
T. capensis var. harmony	Mazhar Botanical garden, 26th July corridor, Imbaba, Giza, Egypt	No. 11-1-2017III
T. capensis var. pink	Mazhar Botanical garden, 26th July corridor, Imbaba, Giza, Egypt	No. 11-1-2017VI
T. capensis var. red	Mazhar Botanical garden, 26th July corridor, Imbaba, Giza, Egypt	No. 11-1-2017VII
Tecoma ×*smithii* W. Watson	El-Orman Botanical garden, Giza, Egypt.	No. 11-1-2017VIII
T. grandiflora Loisel	,Mazhar Botanical garden, 26th July corridor Imbaba, Giza, Egypt	No. 11-1-2017 IV
T. radicans (L.) Juss.	,Antonyades Botanical Garden, Alexandria Egypt	No. 11-1-2017V

Table S2. Concentration (mg/g) of the identified phenolic acids and flavonoids in the studied *Tecoma* species and cultivars using HPLC analysis.

Name of plant	Gallic acid	Chlorogenic acid	Caffeic acid	Rutin	Sinapic acid	Quercetrin
***Tecoma capensis* (Thunb.) lindl**	n.d.	0.02	n.d.	0.0264	0.0014	0.252
T. capensis var. aurea	n.d.	0.032	n.d.	0.0165	0.001	0.0027
T. capensis var.harmony	n.d.	0.037	n.d.	0.078	0.035	0.403
T. capensis var. pink	n.d.	0.0179	n.d.	0.072	0.0017	0.62
T. capensis var. red	n.d.	0.035	n.d.	0.06	0.0011	0.4175
Tecoma grandiflora	n.d.	0.01	n.d.	0.024	0.007	n.d.
Tecoma radicans	n.d.	0.0428	n.d.	0.2	0.015	n.d.
Tecoma smithii	0.28	0.192	n.d.	0.828	n.d.	n.d.

n.d.: not identified

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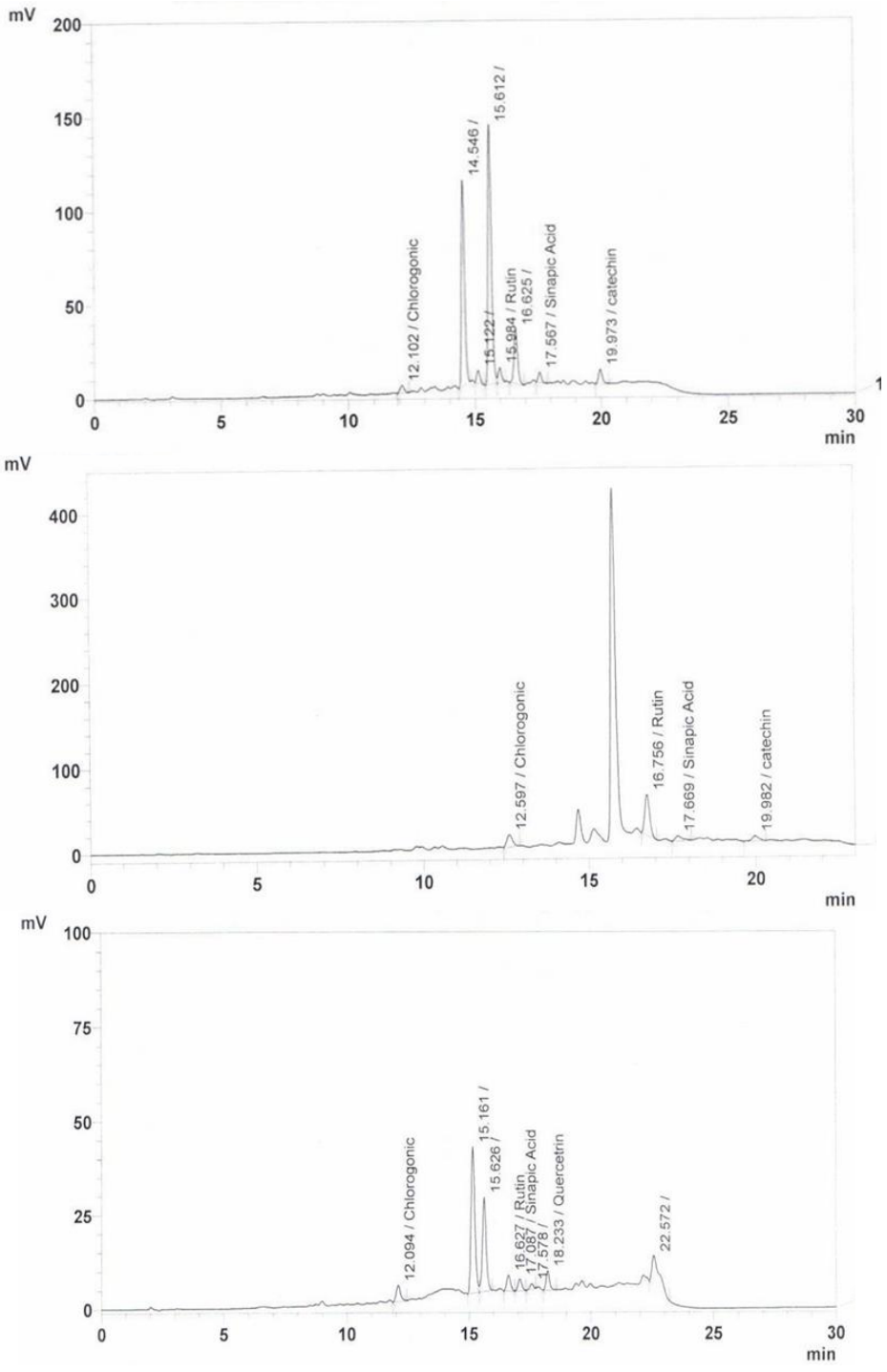

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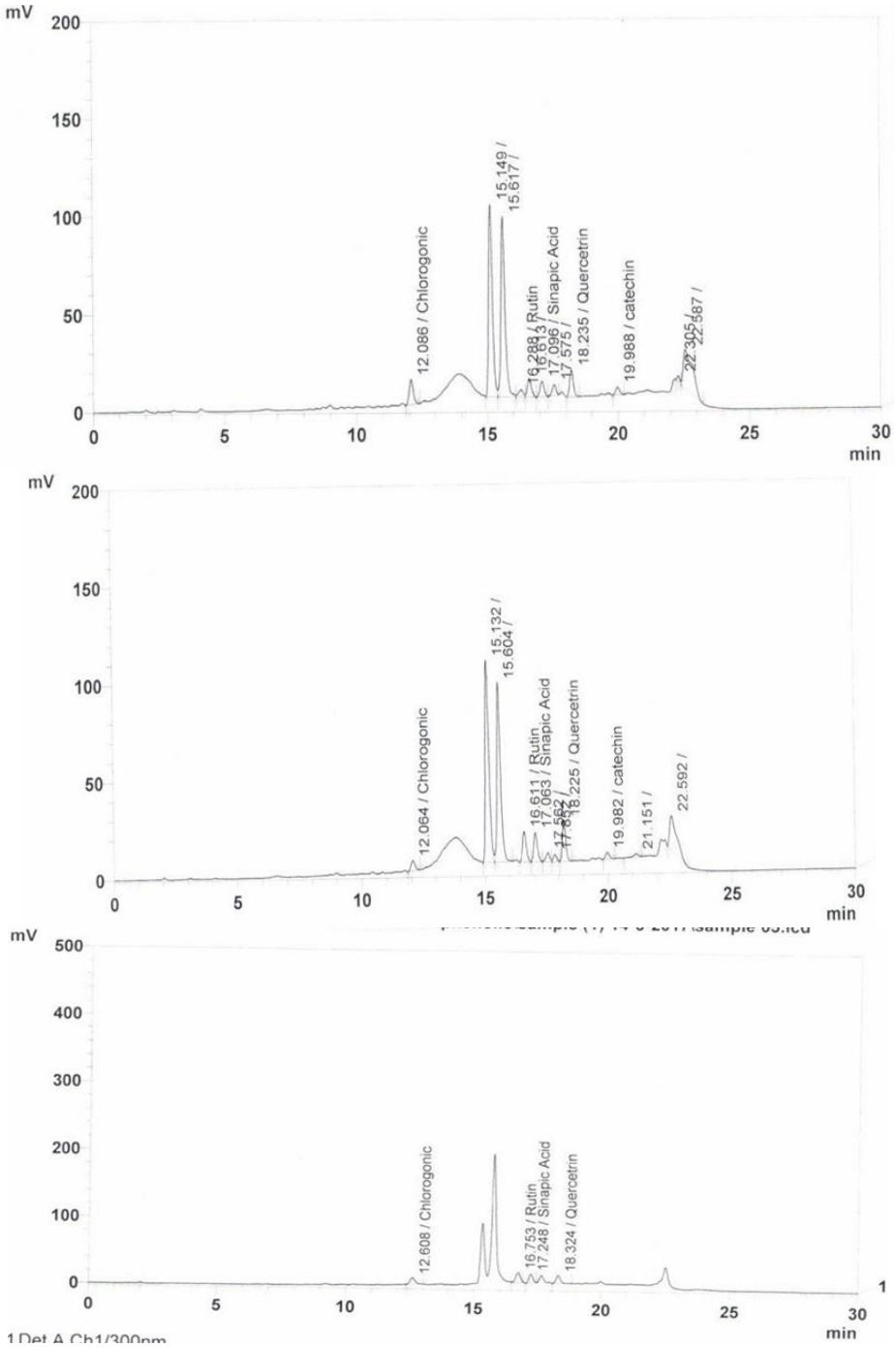

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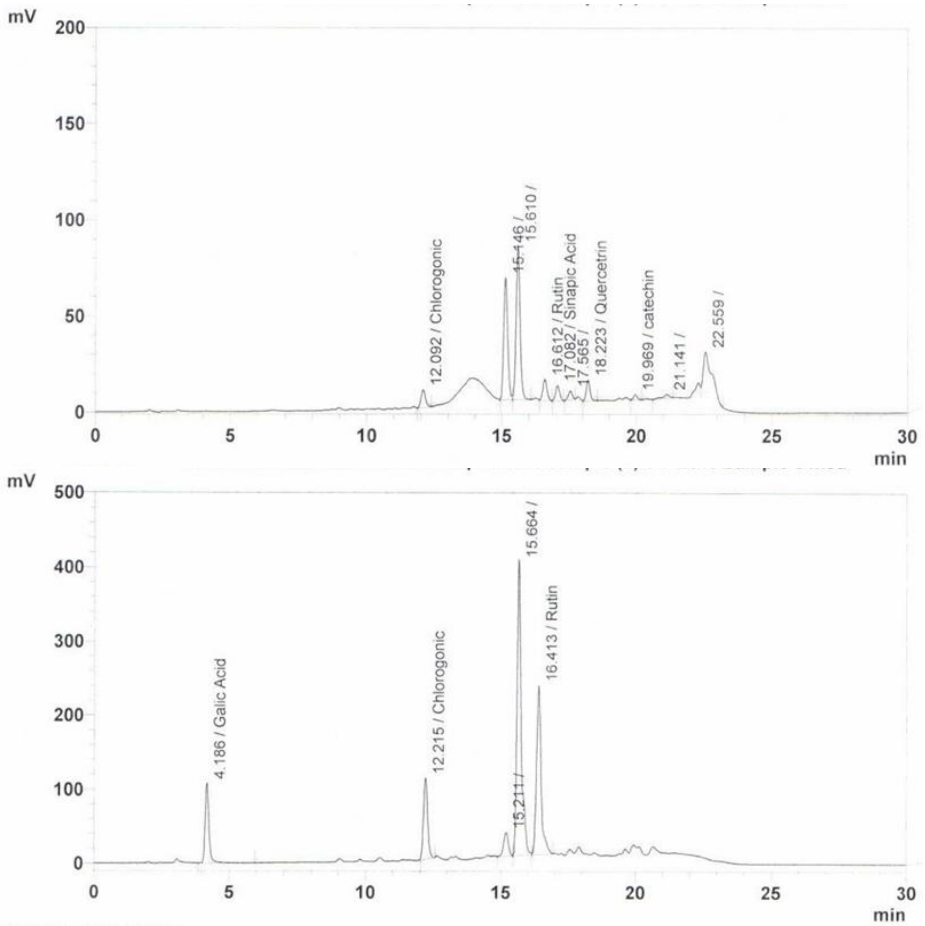

Fig. S1. HPLC chromatograms of **(a)***Tecoma grandiflora*, **(b)** *Tecoma radicans,* **(c)** *Tecoma capensis* (Thunb.) lindl, **(d)** *Tecoma capensis* var. yellow (aurea), **(e)** *Tecoma capensis* var. pink, **(f)** *Tecoma capensis* var. harmony gold, **(g)** *Tecoma capensis* var. red, **(h)** *Tecoma smithii*.