

**Supplementary Table S1.** Total polyphenol and flavonoid content, and antioxidant activity of freeze-dried extracts from *in vitro* propagated shoots, *in vitro* obtained field grown and *in situ* cultivated *Sideritis scardica* plants.

Sample	Total polyphenols, mg GAE/100g DW	Total flavonoids, mg RE/100g DW	ORAC, μmol TE/g DW	HORAC, μmol GAE/g DW
ICP	12095.8±1207.6 <sup>b</sup>	1902.5±229.3 <sup>a</sup>	2595.4±33.5 <sup>b</sup>	718.0±40.5 <sup>b</sup>
FGP	13853.4±627.3 <sup>c</sup>	3394.2±248.7 <sup>b</sup>	2708.4±73.7 <sup>c</sup>	838.4±19.0 <sup>c</sup>
IVS	7870.4±223.1 <sup>a</sup>	1600.9±12.2 <sup>a</sup>	1072.2±23.0 <sup>a</sup>	459.1±18.3 <sup>a</sup>
LSD	1591	188	97	56

Legend: ICP – *in situ* cultivated plants; FGP – *in vitro* obtained, field grown plants; IVS – *in vitro* propagated shoots. The data are presented as means of 3 samples ± standard deviation (SD). Different letters indicate significant differences assessed by Fisher LSD test ( $P \leq 0.05$ ) after performing ANOVA multifactor analysis.