Phenylpropanoids in *Silybum marianum* cultures treated with cyclodextrins coated with magnetic nanoparticles

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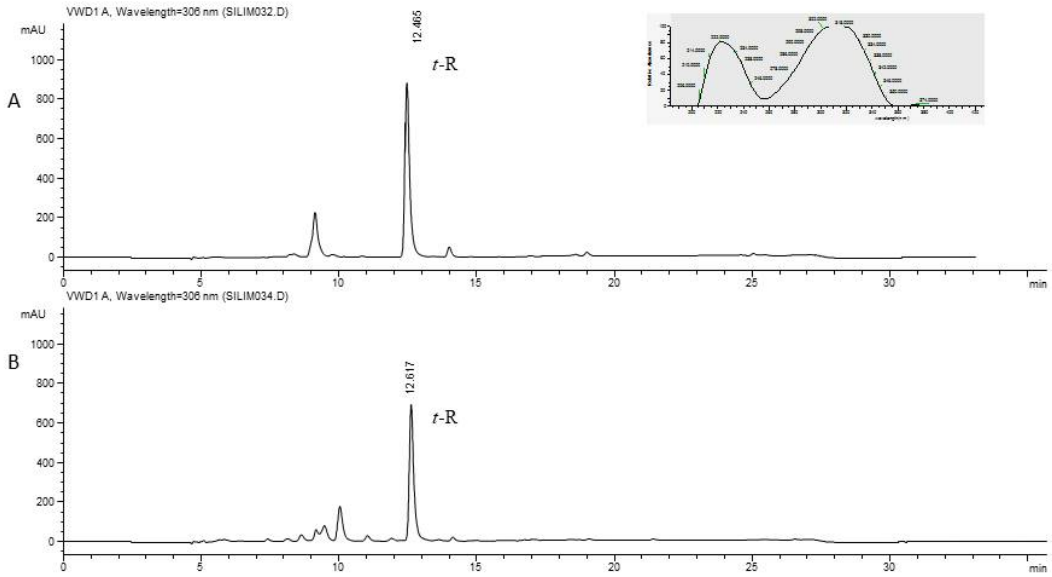
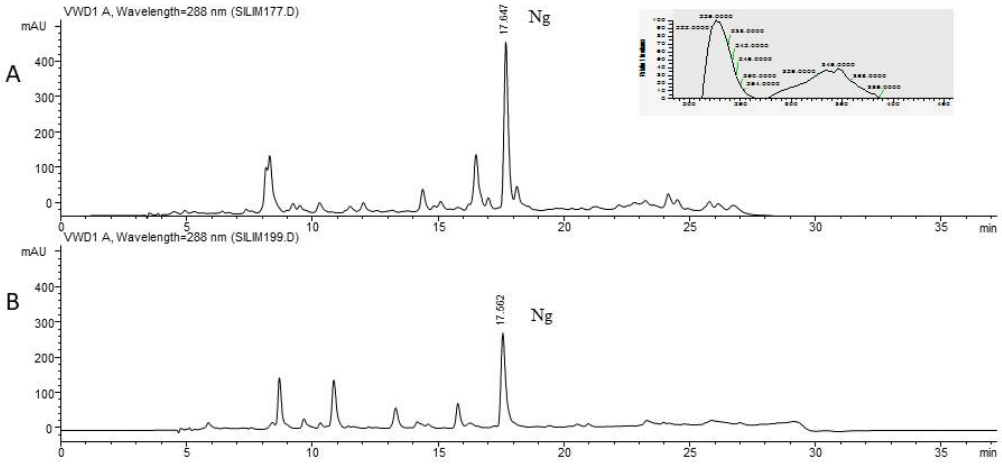


Supp **Fig.S1** Chromatogram (A306) of medium extracts of *Silybum marianum* cultures transformed with a *Vitis vinifera* stilbene synthase gene. A, cultures treated with 100 µM MJ and 15 g/L hydroxypropyl-β-CDs for 3 days . B, cultures treated with 100 µM MJ and 15 g/L hydroxypropyl-β-CDs coated with magnetic Fe_3O_4 nanoparticles for 3 days. Inset: UV spectra of the peak corresponding to *t*-resveratrol at retention time of 12.4 min.



Supp **Fig. S2** Chromatogram (A288) of a medium extracts of *Silybum marianum* cultures transformed with *Cicer arietinum* chalcone synthase gene. A, Cultures treated with 100 µM MJ and 15 g/L hydroxypropyl-β-CDs for 3 days . B, Cultures treated with 100 µM MJ and 15 g/L hydroxypropyl-β-CDs coated with magnetic Fe_3O_4 nanoparticles for 3 days. Inset: UV spectra of the peak corresponding to naringenin at retention time of 17.5 min.

Supp **Table S1** Effect of hydroxypropyl-β-CDs (30mM) on extracellular accumulation of *t*-resveratrol and naringenin in transgenic *Silybum marianum* cultures elicited with 100 µM methyl jasmonate.

	t-resveratrol mg/L	naringenin (mg/L)
MJ	0.075± 0.008	0.015±0.001
MJ + HPCD	10.63 ± 1.8	3.7±0.28

Metabolites were analysed after three days of treatment. Results are means ±SD of three independent replicates.