

Bioactive Phenolics from *Carthamus lanatus* L.

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Two flavonoid aglycons, eight flavonoid glycosides, chlorogenic acid and syringin were isolated from aerial parts of *Carthamus lanatus*. Isorhamnetin 3-*O*- β -D-glucoside and chlorogenic acid were found for the first time in the genus *Carthamus* and respectively, quercimeritrin, astragalin, kaempferol 3-*O*- β -D-sophoroside and syringin in the species. The ethyl acetate fraction of the methanol extract exhibited a higher antioxidant activity than the butanol fraction measured by the α,α -diphenyl- β -picrazyldrazyl (DPPH) free radical scavenging assay. Cytotoxicity and antioxidant activities of the main constituent, luteolin 7-*O*- β -D-glucoside, were evaluated.

Key words: *Carthamus lanatus*, Phenolics, Biological Activity