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Three phenolic glycosides and immunological properties of *Achillea millefolium* from Iran, population of Golestan

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Abstract:

From MeOH extract of aerial parts of *Achillea millefolium* L. collected from Golestan province of Iran, three glycosylated phenolic compounds, luteolin 7-O-glucoside, apigenin 7-O-glucoside and caffeic acid glucoside were isolated and identified by spectroscopic analyses. Immunological properties of different fractions of plant extract were studied on humoral immune system of BALB/c mice by Microhaemagglutination test. Among these fractions only two fractions at 125 mg kg⁻¹ and 61.5 mg kg⁻¹ showed a significant decrease in the anti- SRBC titer of mice ($P < 0.05$). The immunological properties of the latter fractions may be due to glycosylated derivatives of caffeic acid.

Keywords:

Achillea millefolium . Asteraceae . Flavonoids . Humoral Immune System

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