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Flavonol Glycosides from Asperula arvensis L.

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Abstract: From the aerial parts of Asperula arvensis L. 9 known flavonol glycosides, namely quercetin (1), isoquercitrin [= quercetin 3-O-β-glucopyranoside] (2), hyperin [= quercetin 3-O-β -galactopyranoside] (3), quercetin 7-O-β-galactopyranoside (4), quercetin 4'-O-β-galactopyranoside (5), isorhamnetin 3-O-β -galactopyranoside (6), isorhamnetin 5-O-β-galactopyranoside (7), dihydrokaempferol 7-4'-dimethylether 3-O-β -glucopyranoside (8) and isorhamnetin 3-O-α -rhamnopyranosyl (1''' \to 6'')-β -glucopyranosid (9), were isolated. The structures of the compounds were elucidated by high field 1D and 2D NMR and ESI-MS spectroscopies.

Key Words: Asperula arvensis, Rubiaceae, flavonol glycosides, quercetin, isoquercitrin, hyperin, quercetin 7-O-β -galactopyra\-noside, quercetin 4'-O-β-galactopyra\-noside, isorhamnetin 3-O-β-galactopyra\-noside, isorhamnetin 5-O-β -galactopyra\-noside, dihydrokaempferol 7-4'-dimethylether 3-O-β -glucopyra\-noside, isorhamnetin 3-O-α -rhamnopyranosyl (1''' \to 6'')-β-glucopyranosid

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