

Table S1. The phytochemical composition of leaves of the 5 *Hypericum* species by HPLC-HRMS. Selected mass ion intensities of emodin (**1**), emodin anthrone (**2**), protopseudohypericin (**3**), pseudohypericin (**4**), protohypericin (**5**), hypericin (**6**), skyrin (**7**), oxyskyrin-6-O- β -glucopyranoside (**8**), skyrin-6-O- β -glucopyranoside (**9**), 1,2,4,5-tetrahydroxy-7-(hydroxymethyl)-9,10-antraquinone (**10**), and 1,2,4,5-tetrahydroxy-7-methyl-9,10-antraquinone-2-O- β -glucopyranoside (**11**) are shown; n.d. = not detected or below the limit of detection (<LOD); LOQ = limit of quantitation.

Species	1	2	3	4	5	6	7	8	9	10	11
<i>H. humifusum</i>	9.50E+04	<LOQ	2.26E+06	n.d.	1.06E+06	7.45E+05	2.05E+05	n.d.	n.d.	2.76E+03	1.70E+05
<i>H. bupleuroides</i>	n.d.	1.32E+07	n.d.	n.d.	<LOQ	n.d.	1.13E+04	n.d.	n.d.	n.d.	n.d.
<i>H. annulatum</i>	1.94E+04	5.29E+04	2.91E+06	1.33E+06	1.08E+06	1.10E+06	1.91E+05	n.d.	n.d.	1.55E+05	4.17E+05
<i>H. tetrapterum</i>	2.07E+04	<LOQ	4.61E+05	1.00E+06	1.66E+05	5.42E+05	2.36E+05	n.d.	n.d.	n.d.	2.43E+05
<i>H. rumeliacum</i>	1.75E+05	n.d.	1.01E+06	5.76E+05	8.66E+05	3.77E+05	1.10E+05	n.d.	n.d.	1.53E+05	1.10E+05