

Table 1. Mean metabolite concentrations \pm standard error (n=3) measured by HPLC. Units are $\mu\text{mol/g}$ fresh weight.

Species	Organ	Acteoside	Apigenin	ApigeninG	Baicalein	Baicalin	Chrysin	ChrysinG	Hispidulin
<i>S. altissima</i>	Leaf	0 \pm 0	0 \pm 0	0.29 \pm 0.16	0.7 \pm 0.18	0 \pm 0	0.75 \pm 0.07	2.71 \pm 0.19	0 \pm 0
	Stem	0 \pm 0	0 \pm 0	0 \pm 0	0.15 \pm 0.05	0.47 \pm 0.38	0.04 \pm 0.02	0.36 \pm 0.05	0 \pm 0
	Root	0 \pm 0	0 \pm 0	0 \pm 0	0.07 \pm 0	5.07 \pm 0.66	0 \pm 0	0 \pm 0	0 \pm 0
<i>S. arenicola</i>	Leaf	2.76 \pm 1.38	0.44 \pm 0.08	0.11 \pm 0.06	0.2 \pm 0.06	0 \pm 0	0.19 \pm 0.02	0 \pm 0	13.45 \pm 3.41
	Stem	0.67 \pm 0.67	0 \pm 0	0.02 \pm 0.02	0.31 \pm 0.26	0 \pm 0	0.06 \pm 0.06	0 \pm 0	2.57 \pm 0.23
	Root	2 \pm 0.5	0 \pm 0	0.35 \pm 0.18	1.84 \pm 0.3	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
<i>S. baicalensis</i>	Leaf	0 \pm 0	0.19 \pm 0.03	0.13 \pm 0.01	0.19 \pm 0.08	0.2 \pm 0.11	4.84 \pm 0.53	1.49 \pm 0.25	0 \pm 0
	Stem	0.01 \pm 0.01	0.12 \pm 0.12	0.23 \pm 0.01	0.06 \pm 0.03	0.87 \pm 0.87	0.18 \pm 0.04	0.09 \pm 0.01	0.03 \pm 0.02
	Root	0 \pm 0	0 \pm 0	0 \pm 0	0.2 \pm 0.03	32.81 \pm 2.22	0 \pm 0	0.31 \pm 0.01	0 \pm 0
<i>S. barbata</i>	Leaf	0 \pm 0	0.26 \pm 0.21	0.02 \pm 0.02	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
	Stem	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
	Root	1.94 \pm 0.27	0 \pm 0	0 \pm 0	0 \pm 0	3.42 \pm 0.4	0 \pm 0	0 \pm 0	0 \pm 0
<i>S. dependens</i>	Leaf	0 \pm 0	4.4 \pm 2.2	11.53 \pm 3.11	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
	Stem	0 \pm 0	0 \pm 0	1.6 \pm 0.36	0 \pm 0	0.39 \pm 0.16	0 \pm 0	0 \pm 0	0 \pm 0
	Root	1.92 \pm 0.27	0 \pm 0	0 \pm 0	0 \pm 0	7.24 \pm 1.07	0 \pm 0	0.14 \pm 0.07	0 \pm 0
<i>S. havanensis</i>	Leaf	16.69 \pm 9.45	0.23 \pm 0.03	1.62 \pm 0.32	0.08 \pm 0.03	31.22 \pm 6.88	4.25 \pm 0.63	19.06 \pm 4.33	0 \pm 0
	Stem	0 \pm 0	0 \pm 0	0.18 \pm 0.05	0.04 \pm 0	13.88 \pm 0.21	0.99 \pm 0.26	4.06 \pm 0.11	0 \pm 0
	Root	0 \pm 0	0 \pm 0	0 \pm 0	0.14 \pm 0.02	38.21 \pm 1.73	0.89 \pm 0.08	3.37 \pm 0.22	0 \pm 0
<i>S. indica</i> var. <i>coccinea</i>	Leaf	0.83 \pm 0.28	1.19 \pm 0.64	2.13 \pm 0.85	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
	Stem	0 \pm 0	0.21 \pm 0.1	1.27 \pm 0.18	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
	Root	0.8 \pm 0.17	0 \pm 0	0 \pm 0	0 \pm 0	1.13 \pm 0.1	0 \pm 0	0 \pm 0	0 \pm 0
<i>S. insignis</i>	Leaf	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
	Stem	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
	Root	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0
<i>S. leonardii</i>	Leaf	0.15 \pm 0.15	0.11 \pm 0.01	0 \pm 0	0.22 \pm 0.03	0.07 \pm 0.03	25.34 \pm 0.72	0.82 \pm 0.09	0.13 \pm 0.01
	Stem	0 \pm 0	0.02 \pm 0.02	0 \pm 0	0.34 \pm 0.14	0.17 \pm 0.08	5.37 \pm 0.41	0.94 \pm 0.32	0.07 \pm 0
	Root	0.38 \pm 0.38	0.06 \pm 0.03	0 \pm 0	0.12 \pm 0.03	5.35 \pm 0.94	0.4 \pm 0.08	0.18 \pm 0.04	0.1 \pm 0.03
<i>S. pekinensis</i> var. <i>alpina</i>	Leaf	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	8.53 \pm 1.5	17.18 \pm 2.53	0 \pm 0
	Stem	0.49 \pm 0.25	0 \pm 0	0 \pm 0	0 \pm 0	0.13 \pm 0.08	2.14 \pm 0.49	7.89 \pm 0.82	0 \pm 0
	Root	1.45 \pm 0.08	0 \pm 0	0 \pm 0	0 \pm 0	4.01 \pm 0.48	0 \pm 0	4.59 \pm 0.62	0 \pm 0
<i>S. racemosa</i>	Leaf	1.64 \pm 1.64	0 \pm 0	0 \pm 0	0.34 \pm 0.29	7.59 \pm 1.95	0.12 \pm 0.01	0 \pm 0	0.63 \pm 0.18
	Stem	1.4 \pm 1.4	0 \pm 0	0 \pm 0	0.24 \pm 0.22	6.36 \pm 2.13	0.03 \pm 0.03	0 \pm 0	0.25 \pm 0.06
	Root	0.87 \pm 0.4	0 \pm 0	0 \pm 0	0.08 \pm 0.02	6.98 \pm 1.2	0 \pm 0	0 \pm 0	0 \pm 0
<i>S. strigillosa</i>	Leaf	0.33 \pm 0.33	0 \pm 0	0 \pm 0	2.49 \pm 1.2	37.04 \pm 6.19	0 \pm 0	0.8 \pm 0.2	0 \pm 0
	Stem	0 \pm 0	0 \pm 0	0 \pm 0	0 \pm 0	4.18 \pm 0.64	0 \pm 0	0 \pm 0	0 \pm 0
	Root	0.3 \pm 0.3	0 \pm 0	0 \pm 0	0 \pm 0	3.58 \pm 1.1	0 \pm 0	0.12 \pm 0.12	0 \pm 0
<i>S. tournefortii</i>	Leaf	0 \pm 0	0 \pm 0	0.29 \pm 0.07	0.53 \pm 0.13	0 \pm 0	0.49 \pm 0.02	4.85 \pm 1	0 \pm 0
	Stem	0 \pm 0	0 \pm 0	0 \pm 0	0.28 \pm 0.07	0.08 \pm 0.04	0.01 \pm 0.01	0.16 \pm 0.05	0 \pm 0
	Root	0 \pm 0	0 \pm 0	0 \pm 0	0.13 \pm 0.06	0.93 \pm 0.08	0 \pm 0	0.09 \pm 0.04	0 \pm 0
<i>S. wrightii</i>	Leaf	0 \pm 0	0.14 \pm 0.02	0.17 \pm 0.02	9.61 \pm 2.54	13.94 \pm 0.86	1.35 \pm 0.17	0.69 \pm 0.02	0.39 \pm 0.05
	Stem	0 \pm 0	0 \pm 0	0.06 \pm 0.03	0.23 \pm 0.16	16.87 \pm 8.1	0.04 \pm 0.04	0 \pm 0	0.19 \pm 0.11
	Root	0 \pm 0	0 \pm 0	0 \pm 0	5.73 \pm 1.11	85.75 \pm 11.2	0 \pm 0	0 \pm 0	0 \pm 0

Species	Organ	HispidulinG	OroxylinA	Oroxyloside	Scutellarein	Scutellarin	Wogonin	Wogonoside
<i>S. altissima</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0.65 ± 0.28	0 ± 0	0 ± 0	0 ± 0
	Stem	0 ± 0	0 ± 0	0.06 ± 0.06	0 ± 0	0.18 ± 0.01	0.34 ± 0.26	1.26 ± 0.51
	Root	0 ± 0	0.14 ± 0.02	0.64 ± 0.07	0 ± 0	0 ± 0	2.9 ± 0.21	2.3 ± 0.26
<i>S. arenicola</i>	Leaf	0.85 ± 0.43	0 ± 0	0 ± 0	0.25 ± 0.1	0.04 ± 0.02	0.38 ± 0.11	0.03 ± 0.02
	Stem	0.12 ± 0.12	0 ± 0	0 ± 0	0.23 ± 0.17	0.2 ± 0.11	2.98 ± 0.15	0.45 ± 0.09
	Root	0 ± 0	0 ± 0	0.17 ± 0.06	0 ± 0	3.07 ± 0.64	4.98 ± 0.66	5.37 ± 0.31
<i>S. baicalensis</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0.27 ± 0.14	0 ± 0	0 ± 0	0 ± 0
	Stem	0 ± 0	0 ± 0	0 ± 0	1.04 ± 0.43	0 ± 0	0.11 ± 0.11	0.02 ± 0.02
	Root	0 ± 0	0.23 ± 0.13	0.87 ± 0.87	0 ± 0	0 ± 0	3.49 ± 0.18	6.43 ± 0.43
<i>S. barbata</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0.59 ± 0.34	1.66 ± 0.09	0 ± 0	0 ± 0
	Stem	0 ± 0	0 ± 0	0 ± 0	0 ± 0	1.43 ± 0.14	0 ± 0	0 ± 0
	Root	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.34 ± 0.08	2.11 ± 0.29
<i>S. dependens</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	5.81 ± 2.14	11.77 ± 2.05
	Stem	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.51 ± 0.1	6.71 ± 1.13
	Root	0 ± 0	0.47 ± 0.25	5.23 ± 1.23	0 ± 0	0 ± 0	2.58 ± 0.37	4.32 ± 0.74
<i>S. havanensis</i>	Leaf	0 ± 0	0.02 ± 0.02	0 ± 0	0 ± 0	0 ± 0	0.04 ± 0.02	0.27 ± 0.17
	Stem	0 ± 0	0.11 ± 0.03	1.54 ± 0.1	0 ± 0	0 ± 0	1.08 ± 0.15	2.78 ± 0.04
	Root	0 ± 0	0.25 ± 0.07	3.08 ± 0.64	0 ± 0	0 ± 0	2.84 ± 0.24	11.09 ± 0.39
<i>S. indica</i> var. <i>coccinea</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0.97 ± 0.68	3.57 ± 1.45	0 ± 0	0 ± 0
	Stem	0 ± 0	0 ± 0	0 ± 0	0 ± 0	1.58 ± 0.2	0 ± 0	0 ± 0
	Root	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	3.3 ± 0.37	4.61 ± 0.4
<i>S. insignis</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.19 ± 0.04	0 ± 0	0 ± 0
	Stem	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	Root	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.04 ± 0.04	1.02 ± 0.31
<i>S. leonardii</i>	Leaf	0 ± 0	0.59 ± 0.11	0 ± 0	0.22 ± 0.04	0 ± 0	0.07 ± 0.07	0.06 ± 0.02
	Stem	0 ± 0	0.37 ± 0.03	0.03 ± 0.03	0.11 ± 0.01	0 ± 0	1.24 ± 0.09	0.1 ± 0.05
	Root	0 ± 0	1.86 ± 0.31	2.18 ± 0.33	0 ± 0	0 ± 0	5.62 ± 1.1	0 ± 0
<i>S. pekinensis</i> var. <i>alpina</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	Stem	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	Root	0 ± 0	0.14 ± 0.13	0.08 ± 0.06	0 ± 0	0 ± 0	0 ± 0	0 ± 0
<i>S. racemosa</i>	Leaf	0 ± 0	14.39 ± 2.58	29.39 ± 8	0 ± 0	0 ± 0	0.02 ± 0.02	0 ± 0
	Stem	0.06 ± 0.06	5.09 ± 1.09	15.17 ± 4.14	0 ± 0	0 ± 0	0.44 ± 0.03	0.45 ± 0.19
	Root	0 ± 0	0.44 ± 0.11	2.02 ± 0.38	0 ± 0	0 ± 0	1.82 ± 0.06	1.6 ± 0.25
<i>S. strigillosa</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.04 ± 0.03
	Stem	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.17 ± 0.1	0.44 ± 0.11
	Root	0 ± 0	0 ± 0	1.3 ± 0.77	0 ± 0	0 ± 0	0.78 ± 0.41	2.15 ± 0.58
<i>S. tournefortii</i>	Leaf	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.12 ± 0.02	0 ± 0	0.06 ± 0.06
	Stem	0 ± 0	0 ± 0	0.06 ± 0.03	0 ± 0	0.61 ± 0.16	0.13 ± 0.05	2.43 ± 0.66
	Root	0 ± 0	0.08 ± 0.01	1.24 ± 0.14	0 ± 0	0 ± 0	2.33 ± 0.2	7.61 ± 0.15
<i>S. wrightii</i>	Leaf	0 ± 0	0.46 ± 0.09	0.51 ± 0.11	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	Stem	0 ± 0	0.28 ± 0.1	8.52 ± 3.27	0 ± 0	0 ± 0	0.01 ± 0.01	0.2 ± 0.05
	Root	0 ± 0	0.3 ± 0.08	6.83 ± 0.24	0 ± 0	0 ± 0	0.38 ± 0.09	3.67 ± 1.22