



Article

Pharmacokinetic study of anti-osteoarthritic compounds of a standardized fraction from *Sphaeralcea angustifolia*

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Table S1. Parameters of limit of detection (LOD) and limit of quantification (LOQ) calculated.

Compound	Slope of calibration curve (S)	Standard deviation (σ)	Detection limit (LOD)= $3.3\sigma/S$	Quantitation limit (LOQ)= $10\sigma/S$
Tomentin	162940	3385.90	0.068	0.207
Scopoletin	165407	6976.26	0.139	0.421
Sphaeralcic acid	7381.9	133.30	0.059	0.180

Values $n=6$.**Table S2.** Recovery capacity of active compounds from plasma extracted in 5 different days.

Compound	Nominal concentration ($\mu\text{g/mL}$)	Peak area of compound in solution	Peak area of compound in plasma	Recovery (%)	Mean (%) \pm SD	RSD (%)
Tomentin	2.5	362298	360010	99.4	99.4 \pm 0.40	0.40
		370018	369902	100.0		
		376789	372806	98.9		
		367656	364397	99.1		
		362132	360406	99.5		
	5	846586	811858	95.9	96.3 \pm 2.44	2.53
		829876	799616	96.4		
		859980	800692	93.1		
		840096	808335	96.2		
		824215	823877	100.0		
	10	1699392	1568996	92.3	96.7 \pm 2.99	3.09
		1679123	1626145	96.8		
		1652019	1650051	99.9		
		1640822	1622143	98.9		
		1680087	1602613	95.4		
	20	3131575	3109042	99.3	98.2 \pm 1.22	1.24
		3279579	3265492	99.6		
		3300225	3200110	97.0		
		3198001	3103140	97.0		
		3311856	3248992	98.1		
Scopoletin	2.5	350166	338010	96.5	97.4 \pm 2.00	2.06
		365288	348912	95.5		
		358065	342806	95.7		
		355689	354397	99.6		
		354537	352406	99.4		
	5	835755	811858	97.1	99.2 \pm 1.26	1.27
		829366	829616	100		
		820465	820662	100		
		828338	828335	100		
		838300	828877	98.9		
	10	1584170	1568996	99.0	97.3 \pm 1.92	1.97
		1681460	1626145	96.7		
		1669683	1596451	95.6		
		1699245	1622143	95.5		
		1599539	1592613	99.6		
	20	3219863	3122042	98.8	98.1 \pm 1.63	1.66
		3231392	3165492	98.0		

		3159439	3089110	98.1		
		3454103	3303140	95.6		
		3194902	3194881	100		
		38974	38121	97.81		
		39033	37286	95.52		
	5	37454	36048	96.25	97.4 ± 1.48	1.52
		39049	38557	98.74		
		38391	37926	98.79		
Sphaeral- cic acid		75604	75066	99.3		
		74391	74197	99.7		
	10	74276	74202	99.9	99.6 ± 0.35	0.35
		75007	74955	99.9		
		74503	73900	99.2		
		152030	149335	98.2		
		149202	148925	99.8		
		149976	149296	99.5		
	20	150973	148029	98.0	99.0±0.80	0.80
		147103	146033	99.3		
		289536	287123	99.2		
		299976	296883	99.0		
	40	299264	298637	99.8	98.8±1.03	1.04
		298727	289892	97.0		
		290051	286889	98.9		

Mean ± Standard deviance of the Mean; *n* =5.