

Table S1: HPLC-MS/MS Analysis of 80 Flavonoid Components in Purified Flavonoids of *Polygonum perfoliatum* L

Molecular Weight (Da)	Formula	Ionization model	Compounds
302.04271	C ₁₅ H ₁₀ O ₇	[M+H] ⁺ [M-H] ⁻	Quercetin
476.0959	C ₂₂ H ₂₀ O ₁₂	[M+H] ⁺	Scutellarin methyl ester
344.09016	C ₁₈ H ₁₆ O ₇	[M+H] ⁺ [M-H] ⁻	Lysionotin
610.15491	C ₂₇ H ₃₀ O ₁₆	[M+H] ⁺ [M-H] ⁻	Rutin
578.16426	C ₂₇ H ₃₀ O ₁₄	[M+H] ⁺ [M-H] ⁻	Rhoifolin
594.15981	C ₂₇ H ₃₀ O ₁₅	[M+H] ⁺ [M-H] ⁻	Kaempferol-3-O-rutinoside
578.14318	C ₃₀ H ₂₆ O ₁₂	[M+H] ⁺ [M-H] ⁻	Procyanidin B1
594.13799	C ₃₀ H ₂₆ O ₁₃	[M+H] ⁺	Tiliroside
446.08528	C ₂₁ H ₁₈ O ₁₁	[M+H] ⁺	Baicalin
344.08986	C ₁₈ H ₁₆ O ₇	[M+H] ⁺ [M-H] ⁻	Eupatilin
290.07923	C ₁₅ H ₁₄ O ₆	[M+H] ⁺ [M-H] ⁻	(+)-Catechin hydrate
478.07521	C ₂₁ H ₁₈ O ₁₃	[M+H] ⁺ [M-H] ⁻	Quercetin 3-O-β-D-Glucuronide
594.15927	C ₂₇ H ₃₀ O ₁₅	[M+H] ⁺ [M-H] ⁻	Vicenin II
594.15968	C ₂₇ H ₃₀ O ₁₅	[M+H] ⁺ [M-H] ⁻	Lonicerin
320.05322	C ₁₅ H ₁₂ O ₈	[M+H] ⁺ [M-H] ⁻	Dihydromyricetin
462.08013	C ₂₁ H ₁₈ O ₁₂	[M+H] ⁺	Scutellarin
448.10109	C ₂₁ H ₂₀ O ₁₁	[M+H] ⁺	Orientin
300.09991	C ₁₇ H ₁₆ O ₅	[M+H] ⁺ [M-H] ⁻	4',7-Di-O-methylnaringenin

476.09606	C ₂₂ H ₂₀ O ₁₂	[M+H] ⁺	6-O-Methylscutellarin
432.1061	C ₂₁ H ₂₀ O ₁₀	[M+H] ⁺ [M-H] ⁻	Vitexin
594.15942	C ₂₇ H ₃₀ O ₁₅	[M+H] ⁺	Kaempferol 3-glucorhamnoside
448.10126	C ₂₁ H ₂₀ O ₁₁	[M+H] ⁺ [M-H] ⁻	Homoorientin
402.1316	C ₂₁ H ₂₂ O ₈	[M+H] ⁺	Nobiletin
448.10091	C ₂₁ H ₂₀ O ₁₁	[M+H] ⁺ [M-H] ⁻	Astragalin
302.04281	C ₁₅ H ₁₀ O ₇	[M+H] ⁺ [M-H] ⁻	Morin
304.0584	C ₁₅ H ₁₂ O ₇	[M+H] ⁺ [M-H] ⁻	Taxifolin
316.05834	C ₁₆ H ₁₂ O ₇	[M+H] ⁺ [M-H] ⁻	Isorhamnetin
592.18118	C ₂₈ H ₃₂ O ₁₄	[M+H] ⁺	Linarin
272.06851	C ₁₅ H ₁₂ O ₅	[M+H] ⁺ [M-H] ⁻	Naringenin
286.08443	C ₁₆ H ₁₄ O ₅	[M+H] ⁺ [M-H] ⁻	Isosakuranetin
464.09548	C ₂₁ H ₂₀ O ₁₂	[M+H] ⁺	Hyperoside
464.09548	C ₂₁ H ₂₀ O ₁₂	[M-H] ⁻	Isoquercitrin
432.10604	C ₂₁ H ₂₀ O ₁₀	[M+H] ⁺	Afzelin
290.07915	C ₁₅ H ₁₄ O ₆	[M+H] ⁺ [M-H] ⁻	Epicatechin
286.0478	C ₁₅ H ₁₀ O ₆	[M+H] ⁺	Luteolin
316.05843	C ₁₆ H ₁₂ O ₇	[M+H] ⁺ [M-H] ⁻	Eupafolin
564.14855	C ₂₆ H ₂₈ O ₁₄	[M+H] ⁺	Isoschaftoside
314.07915	C ₁₇ H ₁₄ O ₆	[M+H] ⁺ [M-H] ⁻	Pectolinarigenin
286.04786	C ₁₅ H ₁₀ O ₆	[M+H] ⁺ [M-H] ⁻	Kaempferol
608.1755	C ₂₈ H ₃₂ O ₁₅	[M+H] ⁺	Diosmin

302.07947	C ₁₆ H ₁₄ O ₆	[M+H] ⁺ [M-H] ⁻	Hesperetin
318.03759	C ₁₅ H ₁₀ O ₈	[M+H] ⁺ [M-H] ⁻	Myricetin
506.10665	C ₂₃ H ₂₂ O ₁₃	[M+H] ⁺	6"-O-Acetylisouquercitrin
288.06346	C ₁₅ H ₁₂ O ₆	[M+H] ⁺ [M-H] ⁻	Eriodictyol
434.08531	C ₂₀ H ₁₈ O ₁₁	[M+H] ⁺	Avicularin
434.1217	C ₂₁ H ₂₂ O ₁₀	[M+H] ⁺ [M-H] ⁻	Engeletin
374.10122	C ₁₉ H ₁₈ O ₈	[M+H] ⁺ [M-H] ⁻	Chrysosplenetin B
298.08442	C ₁₇ H ₁₄ O ₅	[M+H] ⁺	5-Hydroxy-6,7-dimethoxy flavone
318.07417	C ₁₆ H ₁₄ O ₇	[M+H] ⁺	Padmatin
482.12195	C ₂₅ H ₂₂ O ₁₀	[M+H] ⁺ [M-H] ⁻	Silibinin
610.15338	C ₂₇ H ₃₀ O ₁₆	[M+H] ⁺ [M-H] ⁻	2"-O-β-L-Galactopyranosy lorientin
520.08531	C ₂₃ H ₂₀ O ₁₄	[M+H] ⁺ [M-H] ⁻	2-Hydroxy-4-(9-hydroxy- 7-methoxy-8-oxo-8H-[1,3] dioxolo[4,5-g]chromen-6- yl)phenyl β-D-glucopyranosiduronic acid
270.08921	C ₁₆ H ₁₄ O ₄	[M+H] ⁺	Medicarpin
416.11073	C ₂₁ H ₂₀ O ₉	[M+H] ⁺ [M-H] ⁻	Puerarin
284.06847	C ₁₆ H ₁₂ O ₅	[M+H] ⁺ [M-H] ⁻	Glycitein
270.05282	C ₁₅ H ₁₀ O ₅	[M+H] ⁺ [M-H] ⁻	Genistein
268.03717	C ₁₅ H ₈ O ₅	[M+H] ⁺	Coumestrol
430.12638	C ₂₂ H ₂₂ O ₉	[M+H] ⁺	Ononin
330.07395	C ₁₇ H ₁₄ O ₇	[M+H] ⁺	Iristectorigenin B

600.1645	C ₃₄ H ₂₄ N ₄ O ₇	[M+H] ⁺	6-[Bis(5-nitro-1H-indol-3-yl)methyl]-3-(4-methoxyphenyl)-8-methyl-2H-chromen-2-one
358.10525	C ₁₉ H ₁₈ O ₇	[M-H] ⁻	Retusin (flavonol)
286.08412	C ₁₆ H ₁₄ O ₅	[M-H] ⁻	5,7-Dihydroxy-4-(4-methoxyphenyl)-2-chromanone
450.11621	C ₂₁ H ₂₂ O ₁₁	[M-H] ⁻	3,5-Dihydroxy-2-(4-hydroxyphenyl)-4-oxo-3,4-dihydro-2H-chromen-7-yl hexopyranoside
360.08452	C ₁₈ H ₁₆ O ₈	[M-H] ⁻	5,7,3'-Trihydroxy-6,4',5'-trimethoxyflavone
442.09	C ₂₂ H ₁₈ O ₁₀	[M-H] ⁻	(-)-Epicatechin gallate
290.07904	C ₁₅ H ₁₄ O ₆	[M-H] ⁻	Cianidanol
436.13695	C ₂₁ H ₂₄ O ₁₀	[M-H] ⁻	Phloridzin
270.05282	C ₁₅ H ₁₀ O ₅	[M-H] ⁻	Apigenin
446.08491	C ₂₁ H ₁₈ O ₁₁	[M-H] ⁻	Apigenin 7-O-glucuronide
300.027	C ₁₅ H ₈ O ₇	[M-H] ⁻	Demethylwedelolactone
448.10056	C ₂₁ H ₂₀ O ₁₁	[M-H] ⁻	Kaempferol-7-O-β-D-glucopyranoside
462.11621	C ₂₂ H ₂₂ O ₁₁	[M-H] ⁻	Tectoridin
256.07356	C ₁₅ H ₁₂ O ₄	[M-H] ⁻	Pinocembrin
564.14791	C ₂₆ H ₂₈ O ₁₄	[M-H] ⁻	Vicenin III
300.06339	C ₁₆ H ₁₂ O ₆	[M-H] ⁻	Diosmetin
284.06847	C ₁₆ H ₁₂ O ₅	[M-H] ⁻	Genkwanin
448.13695	C ₂₂ H ₂₄ O ₁₀	[M-H] ⁻	Isosakuranin
434.1213	C ₂₁ H ₂₂ O ₁₀	[M-H] ⁻	Prunin

578.14243	$\text{C}_{30}\text{H}_{26}\text{O}_{12}$	$[\text{M}-\text{H}]^-$	Procyanidin B2
330.07395	$\text{C}_{17}\text{H}_{14}\text{O}_7$	$[\text{M}-\text{H}]^-$	Jaceosidin
