

Table S1. 192 differential metabolites in *Evodia*

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Alkaloids	Indole quinazoline alkaloids	evoxanthidine	<i>E.rutaecarpa</i>	270.09549	1.02170	C ₁₅ H ₁₁ NO ₄	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	7,8-dehydrorutaecarpine	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	286.10168	9.32874	C ₁₈ H ₁₁ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	isoevodiamine	<i>E.delavayi</i> , <i>E.rutaecarpa</i>	288.09169	16.6449 3	C ₁₈ H ₁₃ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	pseudorutaecarpine	<i>E.compacta</i> , <i>E.delavayi</i>	288.10489	1.31414	C ₁₈ H ₁₃ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	rutaecarpine	<i>E.sutchuenensis</i>	288.10489	4.00941	C ₁₈ H ₁₃ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	wuzhuyurutine A	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	290.08859	0.89975	C ₁₇ H ₁₁ N ₃ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	dimethyl evodiamide	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	290.13449	2.66598	C ₁₈ H ₁₅ N ₃ O	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Alkaloids	Indole quinazoline alkaloids	evodione	<i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	293.10248	3.97998	C ₁₆ H ₂₀ O ₅	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	dimethyl evodiamide	<i>E.compacta</i> , <i>E.rutaecarpa</i>	294.14978	0.91878	C ₁₈ H ₁₉ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	dehydroevodiamine	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	302.12189	28.0664 8	C ₁₉ H ₁₅ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	N13-methyl-rutaecarpine	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	302.14679	80.2343 3	C ₁₉ H ₁₅ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	evodiamine	<i>E.ailanthifolia</i> , <i>E.delavayi</i> , <i>E.rutaecarpa</i>	304.10449	10.8611 7	C ₁₉ H ₁₇ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	10-hydroxyrutaecarpine	<i>E.austrosinensis</i> , <i>E.rutaecarpa</i>	304.10870	16.6747 2	C ₁₈ H ₁₃ N ₃ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	1-hydroxyrutaecarpine	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	304.10870	23.1252 7	C ₁₈ H ₁₃ N ₃ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline	3-hydroxyrutaecarpine	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	304.10945	15.0104 1	C ₁₈ H ₁₃ N ₃ O ₂	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
	alkaloids						
Alkaloids	Indole quinazoline alkaloids	rhetsine	<i>E.austrosinensis</i> , <i>E.fargesii</i>	304.11775	1.53560	C ₁₉ H ₁₇ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	wuzhuyurutine B	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	306.11029	17.2076 5	C ₁₇ H ₁₁ N ₃ O ₃	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	wuzhuyurutine D	<i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	306.12698	0.92159	C ₁₇ H ₁₁ N ₃ O ₃	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	evodiamide	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.daniellii</i> , <i>E.rutaecarpa</i>	308.11850	6.70353	C ₁₉ H ₂₁ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	14- <i>N</i> -formyrutaecarpine	<i>E.delavayi</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	316.21741	16.4200 0	C ₁₉ H ₁₃ N ₃ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	14- formyldihydrorutaecarpine	<i>E.austrosinensis</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	318.12180	3.81744	C ₁₉ H ₁₅ N ₃ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	1-methoxyrutaecarpine	<i>E.rutaecarpa</i>	318.12180	16.0730 2	C ₁₉ H ₁₅ N ₃ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline	hortiacine	<i>E.rutaecarpa</i>	318.12180	34.1665 7	C ₁₉ H ₁₅ N ₃ O ₂	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
	alkaloids						
Alkaloids	Indole quinazoline alkaloids	1,2-dihydroxyrutaecarpine	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.daniellii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	320.10068	16.3515 0	C ₁₈ H ₁₃ N ₃ O ₃	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	wuchuyamide III	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	324.12830	1.52935	C ₁₈ H ₁₇ N ₃ O ₃	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	evodine	<i>E.rutaecarpa</i>	330.15628	6.32866	C ₁₈ H ₁₉ NO ₅	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	euxylophoricine C	<i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	332.08508	8.95835	C ₁₉ H ₁₃ N ₃ O ₃	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	euxylophoricine F	<i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	334.11554	4.13329	C ₁₉ H ₁₅ N ₃ O ₃	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	13 β - hydroxymethylevodiamine	<i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	334.21158	52.9794 2	C ₂₀ H ₁₉ N ₃ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	wuchuyamide II	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	336.11719	3.20547	C ₁₉ H ₁₇ N ₃ O ₃	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Alkaloids	Indole quinazoline alkaloids	dehydroevodiamine chloride	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	339.11569	3.24757	C ₁₉ H ₁₆ ClN ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	carboxyevodiamine	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i>	348.12769	2.24740	C ₂₀ H ₁₇ N ₃ O ₃	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	evodioxinine	<i>E.compacta</i> , <i>E.glabrifolia</i>	316.16611	59.2007 6	C ₂₀ H ₁₇ N ₃ O	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	euxylophoricine B	<i>E.glabrifolia</i>	346.09949	1.54164	C ₂₀ H ₁₅ N ₃ O ₃	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	euxylophoricine E	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i>	376.17229	1.93245	C ₂₁ H ₁₇ N ₃ O ₄	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	rutaecarpine-2- <i>O</i> -β-D- glucopyranoside	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	466.43848	2.80646	C ₂₄ H ₂₃ N ₃ O ₇	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	dievodiamine	<i>E.compacta</i> , <i>E.fargesii</i>	603.25208	66.7762 3	C ₃₈ H ₃₀ N ₆ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	(7 <i>R</i> ,8 <i>S</i>)-7-hydroxy-8- ethoxy-rutaecarpine	<i>E.sutchuenensis</i>	320.10068	34.2787 9	C ₁₈ H ₁₃ N ₃ O ₃	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Alkaloids	Indole quinazoline alkaloids	hydroxyevodiamine	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.glabrifolia</i> , <i>E.sutchuenensis</i>	320.13480	5.19086	C ₁₉ H ₁₇ N ₃ O ₂	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	wuchuyamide I	<i>E.ailanthifolia</i> , <i>E.daniellii</i> , <i>E.delavayi</i>	352.14819	18.28638	C ₁₉ H ₁₇ N ₃ O ₄	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	preskimmianine	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i>	304.14200	56.92296	C ₁₇ H ₂₁ NO ₄	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	euxylophoricine A	<i>E.compacta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	348.12769	2.02716	C ₂₀ H ₁₇ N ₃ O ₃	[M+H] ⁺
Alkaloids	Quinoline alkaloid	columbamine	<i>E.ailanthifolia</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i>	339.13519	7.70203	C ₂₀ H ₂₀ NO ₄	[M+H] ⁺
Alkaloids	Quinoline alkaloid	chelerythrine chloride	<i>E.rutaecarpa</i>	384.14125	1.20036	C ₂₁ H ₁₈ ClNO ₄	[M+H] ⁺
Alkaloids	Quinoline alkaloid	palmatine	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i>	353.17938	61.01682	C ₂₁ H ₂₂ NO ₄	[M+H] ⁺
Alkaloids	Quinolone alkaloids	atanine	<i>E.austrosinensis</i> , <i>E.daniellii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	244.11909	1.16988	C ₁₅ H ₁₇ NO ₂	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-nonyl-4(1 <i>H</i>)-quinolone	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	286.09848	35.89032	C ₁₉ H ₂₇ NO	[M+H] ⁺
Alkaloids	Quinolone	bouchardatine	<i>E.austrosinensis</i> , <i>E.rutaecarpa</i>	290.08859	19.9148	C ₁₇ H ₁₁ N ₃ O ₂	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
	alkaloids				9		
Alkaloids	Quinolone alkaloids	1-methyl-2-decyl-4(1 <i>H</i>)-quinolone	<i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	300.32364	17.1407	C ₂₀ H ₂₉ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[(<i>Z</i>)-5-undecenyl]-4(1 <i>H</i>)-quinolone	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	312.22290	40.2957	C ₂₁ H ₂₉ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-undecyl-4(1 <i>H</i>)-quinolone	<i>E.austrosinensis</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	314.25079	62.7489	C ₂₁ H ₃₁ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[6-carbonyl-(<i>E</i>)-4-undecenyl]-4(1 <i>H</i>)-quinolone	<i>E.fargesii</i> , <i>E.rutaecarpa</i>	326.24640	54.2973	C ₂₁ H ₂₇ NO ₂	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-dodecyl-4(1 <i>H</i>)-quinolone	<i>E.austrosinensis</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	328.07730	44.4380	C ₂₂ H ₃₃ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[(<i>Z</i>)-7-tridecenyl]-4(1 <i>H</i>)-quinolone	<i>E.austrosinensis</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	340.25179	60.6724	C ₂₃ H ₃₃ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	evocarpine	<i>E.austrosinensis</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	340.26169	65.1159	C ₂₃ H ₃₃ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	dihydroevocarpine	<i>E.austrosinensis</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	342.27048	54.3059	C ₂₃ H ₃₅ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[6-carbonyl-(<i>E</i>)-7-tridecenyl]-4(1 <i>H</i>)-quinolone	<i>E.austrosinensis</i> , <i>E.glabrifolia</i>	354.22998	46.9021	C ₂₃ H ₃₁ NO ₂	[M+H] ⁺

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Alkaloids	Quinolone alkaloids	evoprenine	<i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	355.18329	52.4074 9	C ₂₁ H ₂₄ NO ₄	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-tetradecyl-4(1 <i>H</i>)-quinolone	<i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	356.11969	24.4999 0	C ₂₄ H ₃₇ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[13-hydroxytridecenyl]-4(1 <i>H</i>)-quinolone	<i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	358.24548	29.4985 6	C ₂₃ H ₃₅ NO ₂	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[(<i>Z</i>)-6-pentadecenyl]-4(1 <i>H</i>)-quinolone	<i>E.daniellii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	366.22809	49.7632 0	C ₂₅ H ₃₇ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[(6 <i>Z</i> ,9 <i>Z</i>)-6,9-pentadecadienyl]-4(1 <i>H</i>)-quinolone	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	366.27820	53.8651 0	C ₂₅ H ₃₅ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	2-nonyl-4(1 <i>H</i>)-quinolone	<i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	272.20270	55.3438 8	C ₁₈ H ₂₅ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	(-) edulinine	<i>E.glabrifolia</i>	292.18768	47.4153 9	C ₁₆ H ₂₁ NO ₄	[M+H] ⁺
Alkaloids	Quinolone alkaloids	2-tridecyl-4(1 <i>H</i>)-quinolone	<i>E.compacta</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i>	318.17288	68.9512 5	C ₂₂ H ₂₃ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[(4 <i>Z</i> ,7 <i>Z</i>)-4,7-tridecadienyl]-4(1 <i>H</i>)-quinolone	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i>	338.25650	58.3908 6	C ₂₃ H ₃₁ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[(<i>Z</i>)-10-pentadecenyl]-4(1 <i>H</i>)-	<i>E.fargesii</i>	338.34430	76.4060 9	C ₂₅ H ₃₇ NO	[M+H] ⁺

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Alkaloids	Quinolone alkaloids	quinolone 1-methyl-2-[7-carbonyl-(<i>E</i>)-9-tridecenyl]-4(1 <i>H</i>)-quinolone	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	354.22998	46.8401 3	C ₂₃ H ₃₁ NO ₂	[M+H] ⁺
Alkaloids	Quinolone alkaloids	euocarpine D	<i>E.fargesii</i>	354.22998	59.6542 2	C ₂₃ H ₃₁ NO ₂	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-pentadecenyl-4(1 <i>H</i>)-quinolone	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i>	370.27798	70.1014 3	C ₂₅ H ₃₉ NO	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-[15-hydroxyl-pentadecenyl]-4(1 <i>H</i>)-quinolone	<i>E.compacta</i> , <i>E.fargesii</i>	386.28729	66.6798 5	C ₂₅ H ₃₉ NO ₂	[M+H] ⁺
Alkaloids	Quinolone alkaloids	1-methyl-2-octyl-4(1 <i>H</i>)-quinolone	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.glabrifolia</i>	272.20270	55.2916 5	C ₁₈ H ₂₅ NO	[M+H] ⁺
Alkaloids	Acridone alkaloids	xanthoxoline	<i>E.ailanthifolia</i> , <i>E.rutaecarpa</i>	272.06088	19.9766 6	C ₁₅ H ₁₃ NO ₄	[M+H] ⁺
Alkaloids	Acridone alkaloids	evoxanthine	<i>E.sutchuenensis</i>	284.10715	4.27653	C ₁₆ H ₁₃ NO ₄	[M+H] ⁺
Alkaloids	Acridone alkaloids	4-hydroxy-2,3-dimethoxy-10-methylacridone	<i>E.ailanthifolia</i>	302.13019	21.8966 2	C ₁₆ H ₁₅ NO ₅	[M+H] ⁺
Alkaloids	Acridone alkaloids	melicopidine	<i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i>	314.08099	0.76270	C ₁₇ H ₁₅ NO ₅	[M+H] ⁺
Alkaloids	Acridone alkaloids	skimmianine	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i>	260.09630	9.43573	C ₁₄ H ₁₃ NO ₄	[M+H] ⁺
Alkaloids	Acridone	kokusaginine	<i>E.sutchuenensis</i>	260.09839	10.8335	C ₁₄ H ₁₃ NO ₄	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
	alkaloids				8		
Alkaloids	Acridone alkaloids	isobalfourodine	<i>E.compacta</i>	290.13449	91.6419	C ₁₆ H ₁₉ NO ₄	[M+H] ⁺
	alkaloids				9		
Alkaloids	Acridone alkaloids	2,3,4-trimethoxy-10-methylacridone	<i>E.daniellii</i>	300.12140	39.4928	C ₁₇ H ₁₇ NO ₄	[M+H] ⁺
	alkaloids				9		
Alkaloids	Berberine alkaloids	coptisine	<i>E.austrosinensis, E.compacta, E.fargesii, E.glabrifolia, E.rutaecarpa, E.sutchuenensis</i>	321.10950	3.38678	C ₁₉ H ₁₄ NO ₄	[M+H] ⁺
	alkaloids						
Alkaloids	Berberine alkaloids	epiberberine	<i>E.ailanthifolia, E.compacta, E.daniellii, E.delavayi, E.lepta</i>	337.09830	1.47941	C ₂₀ H ₁₈ NO ₄	[M+H] ⁺
	alkaloids						
Alkaloids	Berberine alkaloids	berberine	<i>E.ailanthifolia, E.compacta, E.fargesii, E.rutaecarpa</i>	337.08078	1.33046	C ₂₀ H ₁₈ NO ₄	[M+H] ⁺
	alkaloids						
Alkaloids	Berberine alkaloids	berberastine	<i>E.ailanthifolia, E.austrosinensis, E.compacta, E.delavayi, E.lepta, E.sutchuenensis</i>	353.13449	30.7228	C ₂₀ H ₁₈ NO ₅	[M+H] ⁺
	alkaloids				2		
Alkaloids	Berberine alkaloids	jatrorrhizine	<i>E.ailanthifolia, E.daniellii, E.rutaecarpa</i>	339.12650	21.7421	C ₂₀ H ₂₀ NO ₄	[M+H] ⁺
	alkaloids				8		
Alkaloids	Carboline alkaloids	2-methyl-6-hydroxy-1,2,3,4-tetrahydro-β-carboline	<i>E.daniellii, E.fargesii</i>	203.10730	22.6888	C ₁₂ H ₁₄ N ₂ O	[M+H] ⁺
	alkaloids				2		
Alkaloids	Carboline alkaloids	6-methoxy-N-methyl-1,2,3,4-tetrahydro-β-carboline	<i>E.ailanthifolia, E.daniellii, E.glabrifolia</i>	217.17690	47.7275	C ₁₃ H ₁₆ N ₂ O	[M+H] ⁺
	alkaloids				7		

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Alkaloids	Furanquinoline alkaloids	6-methoxydictamnine	<i>E.austrosinensis</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	230.09249	3.62308	C ₁₃ H ₁₁ NO ₃	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	evolitrine	<i>E.rutaecarpa</i>	230.14539	19.63435	C ₁₃ H ₁₁ NO ₃	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	leptanoine A	<i>E.fargesii</i> , <i>E.rutaecarpa</i>	282.11649	0.95531	C ₁₇ H ₁₅ NO ₃	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	melineurine	<i>E.compacta</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	284.11520	0.88546	C ₁₇ H ₁₇ NO ₃	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	roxiamine C	<i>E.ailanthifolia</i> , <i>E.delavayi</i> , <i>E.rutaecarpa</i>	288.10788	24.06148	C ₁₆ H ₁₇ NO ₄	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	buchapine	<i>E.rutaecarpa</i>	298.11011	1.10965	C ₁₉ H ₂₃ NO ₂	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	leptanoine B	<i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	312.12088	19.88019	C ₁₈ H ₁₇ NO ₄	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	leptanoine C	<i>E.compacta</i> , <i>E.fraxinifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	314.14868	0.76055	C ₁₈ H ₁₉ NO ₄	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	anhydroevoxine	<i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	330.12158	21.19140	C ₁₈ H ₁₉ NO ₅	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	roxiamine B	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.delavayi</i>	328.12918	1.25079	C ₁₈ H ₁₇ NO ₅	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	evolatine	<i>E.fargesii</i>	348.14268	1.54506	C ₁₈ H ₂₁ NO ₆	[M+H] ⁺
Alkaloids	Furanquinoline alkaloids	evoxine	<i>E.lepta</i>	348.14270	2.38072	C ₁₈ H ₂₁ NO ₆	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Alkaloids	Pyranquinoline alkaloids	flindersine	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.daniellii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	228.09779	7.65223	C ₁₄ H ₁₃ NO ₂	[M+H] ⁺
Alkaloids	Pyranquinoline alkaloids	haplamine	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	258.10590	14.8617 8	C ₁₅ H ₁₅ NO ₃	[M+H] ⁺
Alkaloids	Pyranquinoline alkaloids	(-) ribalinine	<i>E.austrosinensis</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	260.11380	1.04642	C ₁₅ H ₁₇ NO ₃	[M+H] ⁺
Alkaloids	Pyranquinoline alkaloids	(+)-ribahnine	<i>E.lepta</i> , <i>E.sutchuenensis</i>	260.11380	0.66055	C ₁₅ H ₁₇ NO ₄	[M+H] ⁺
Alkaloids	Quinazoline alkaloids	vasicinone	<i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	203.05280	0.87924	C ₁₁ H ₁₀ N ₂ O ₂	[M+H] ⁺
Alkaloids	Quinazoline alkaloids	fumiquinazolines J	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	357.14771	14.1150 0	C ₂₁ H ₁₆ N ₄ O ₂	[M+H] ⁺
Alkaloids	Quinazoline alkaloids	fumiquinazolines A	<i>E.sutchuenensis</i>	446.17709	1.15185	C ₂₄ H ₂₃ N ₅ O ₄	[M+H] ⁺
Alkaloids	Quinazoline alkaloids	fumiquinazolines E	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.sutchuenensis</i>	476.19650	5.21834	C ₂₅ H ₂₅ N ₅ O ₅	[M+H] ⁺
Alkaloids	Tryptamine alkaloids	fargesine	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	219.10210	6.45477	C ₁₂ H ₁₄ N ₂ O ₂	[M+H] ⁺
Alkaloids	Tryptamine alkaloids	<i>N,N</i> -dimethy-5-methoxytryptamine	<i>E.ailanthifolia</i> , <i>E.daniellii</i> , <i>E.rutaecarpa</i>	219.14450	1.60360	C ₁₃ H ₁₈ N ₂ O	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Alkaloids	Tryptamine alkaloids	5-methoxy- <i>N,N</i> -dimethyltryptamine- <i>N</i> β -oxide	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	235.08780	19.9766 6	C ₁₃ H ₁₈ N ₂ O ₂	[M+H] ⁺
Alkaloids	Tryptamine alkaloids	5-methoxy- <i>N,N</i> -dimethyltryptamine	<i>E.daniellii</i>	219.10210	8.07471	C ₁₃ H ₁₈ N ₂ O	[M+H] ⁺
Alkaloids	Tryptamine alkaloids	bufotenine 5- <i>O</i> - β -D-glucopyranoside <i>N</i> 12-oxide	<i>E.compacta</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i>	384.18799	65.9426 3	C ₁₈ H ₂₇ N ₂ O ₇	[M+H] ⁺
Alkaloids	Tryptamine alkaloids	bufotenine <i>N</i> 12-oxide	<i>E.compacta</i> , <i>E.lepta</i>	222.10359	1.06986	C ₁₂ H ₁₇ N ₂ O ₂	[M+H] ⁺
Alkaloids	Tryptamine alkaloids	plectocomine 12-methyl-5- <i>O</i> - β -D-glucopyranoside <i>N</i> 12-oxide	<i>E.austrosinensis</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	383.17139	5.09379	C ₁₈ H ₂₅ N ₂ O ₇	[M+H] ⁺
Alkaloids	Tryptamine alkaloids	bufotenine	<i>E.austrosinensis</i>	205.08549	57.1538 7	C ₁₂ H ₁₆ N ₂ O	[M+H] ⁺
Alkaloids	Others	harmine	<i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	213.17769	0.47736	C ₁₃ H ₁₂ N ₂ O	[M+H] ⁺
Alkaloids	Others	canthin-6-one	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.daniellii</i> , <i>E.rutaecarpa</i>	221.12810	1.13202	C ₁₄ H ₈ N ₂ O	[M+H] ⁺
Alkaloids	Others	higenamine	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	272.12390	1.30209	C ₁₆ H ₁₇ NO ₃	[M+H] ⁺
Alkaloids	Others	ethylleptol B	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	293.20309	24.7038 1	C ₁₇ H ₂₄ O ₄	[M+H] ⁺
Alkaloids	Others	shewanellines C	<i>E.compacta</i> , <i>E.rutaecarpa</i>	296.12663	1.04826	C ₁₆ H ₁₃ N ₃ O ₃	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Alkaloids	Others	evellerine	<i>E.compacta</i> , <i>E.lepta</i>	318.12198	3.86699	C ₁₇ H ₁₉ NO ₅	[M+H] ⁺
Alkaloids	Others	halfordinine	<i>E.ailanthifolia</i>	290.09958	24.4471	C ₁₅ H ₁₅ NO ₅	[M+H] ⁺
					2		
Phenolic acids	Coumarins	xanthotoxin	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.delavayi</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	217.08549	1.19454	C ₁₂ H ₈ O ₄	[M+H] ⁺
Phenolic acids	Coumarins	isopimpinellin	<i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	247.09720	2.19990	C ₁₃ H ₁₀ O ₅	[M+H] ⁺
Phenolic acids	Coumarins	bergapten	<i>E.austrosinensis</i> , <i>E.delavayi</i>	217.04329	1.72412	C ₁₂ H ₈ O ₄	[M+H] ⁺
Phenolic acids	Flavonoids	phellamurin	<i>E.austrosinensis</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i>	519.35168	74.7508	C ₂₆ H ₃₀ O ₁₁	[M+H] ⁺
					9		
Phenolic acids	Flavonoids	hesperidin	<i>E.compacta</i> , <i>E.glabrifolia</i>	611.15851	13.7558	C ₂₈ H ₃₄ O ₁₅	[M+H] ⁺
					3		
Phenolic acids	Flavonoids	flavaprin	<i>E.compacta</i>	503.20078	13.7168	C ₂₆ H ₃₀ O ₁₀	[M+H] ⁺
					8		
Phenolic acids	others	leptene B	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	247.11229	6.93464	C ₁₅ H ₁₈ O ₃	[M+H] ⁺
Phenolic acids	others	isoevodionol	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	249.11279	0.95264	C ₁₄ H ₁₆ O ₄	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Phenolic acids	others	leptol B	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	265.11230	1.80185	C ₁₅ H ₂₀ O ₄	[M+H] ⁺
Phenolic acids	others	emodin	<i>E.austrosinensis</i> , <i>E.rutaecarpa</i>	271.07735	22.80786	C ₁₅ H ₁₀ O ₅	[M+H] ⁺
Phenolic acids	others	leptene A	<i>E.ailanthifolia</i> , <i>E.daniellii</i> , <i>E.fraxinifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	277.15640	22.08363	C ₁₆ H ₂₀ O ₄	[M+H] ⁺
Phenolic acids	others	methylleptol B	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.sutchuenensis</i>	279.15100	27.55854	C ₁₆ H ₂₂ O ₄	[M+H] ⁺
Phenolic acids	others	leptin A	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	283.10199	6.07034	C ₁₄ H ₁₈ O ₆	[M+H] ⁺
Phenolic acids	others	leptin B	<i>E.compacta</i> , <i>E.rutaecarpa</i>	283.10199	4.18155	C ₁₄ H ₁₈ O ₆	[M+H] ⁺
Phenolic acids	others	physcion	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fraxinifolia</i>	285.09790	37.56786	C ₁₆ H ₁₂ O ₅	[M+H] ⁺
Phenolic acids	others	alloeodione	<i>E.rutaecarpa</i>	293.20309	27.58928	C ₁₆ H ₂₀ O ₅	[M+H] ⁺
Phenolic acids	others	leptol A	<i>E.glabrifolia</i>	295.11688	1.12054	C ₁₆ H ₂₂ O ₅	[M+H] ⁺
Phenolic	others	2-(1'-geranyloxy)-4,6-	<i>E.compacta</i> , <i>E.daniellii</i> , <i>E.lepta</i>	305.10941	23.1827	C ₁₈ H ₂₄ O ₄	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
acids		dihydroxyacetophenone			0		
Phenolic acids	others	leptin C	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	311.14319	5.67042	C ₁₆ H ₂₂ O ₆	[M+H] ⁺
Phenolic acids	others	leucomidines C	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	315.19901	38.58466	C ₁₈ H ₂₂ N ₂ O ₃	[M+H] ⁺
Phenolic acids	others	melofolione a	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	319.11050	1.26927	C ₁₈ H ₂₂ O ₅	[M+H] ⁺
Phenolic acids	others	leucomidines A	<i>E.ailanthifolia</i> , <i>E.fargesii</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	325.13454	5.99697	C ₁₉ H ₂₀ N ₂ O ₃	[M+H] ⁺
Phenolic acids	others	leucomidines B	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	341.16058	13.89834	C ₂₀ H ₂₄ N ₂ O ₃	[M+H] ⁺
Phenolic acids	others	7,4-dihydroxy-3,5,3'-trimethoxyflavone	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	345.10529	26.24281	C ₁₈ H ₁₆ O ₇	[M+H] ⁺
Phenolic acids	others	floridolide B		353.22089	14.98667	C ₂₀ H ₃₂ O ₅	[M+H] ⁺
Phenolic acids	others	floridiolic acid	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	353.22430	47.22457	C ₂₁ H ₃₆ O ₄	[M+H] ⁺
Phenolic acids	others	fumiquinazolines F	<i>E.ailanthifolia</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.lepta</i> , <i>E.sutchuenensis</i>	359.15369	3.01148	C ₂₁ H ₁₈ N ₄ O ₂	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Phenolic acids	others	floribundic acid	<i>E.compacta</i> , <i>E.delavayi</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	359.17178	4.64139	C ₂₁ H ₂₆ O ₅	[M+H] ⁺
Phenolic acids	others	3- <i>O</i> - β -D- caffeoylquinic acid methyl ester	<i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fraxinifolia</i> , <i>E.rutaecarpa</i>	369.12128	1.20749	C ₁₇ H ₂₀ O ₉	[M+H] ⁺
Phenolic acids	others	meliternatin	<i>E.rutaecarpa</i>	371.15530	2.17740	C ₁₉ H ₁₄ O ₈	[M+H] ⁺
Phenolic acids	others	syringin	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	373.14468	14.9371 6	C ₁₇ H ₂₄ O ₉	[M+H] ⁺
Phenolic acids	others	5,4'-dihydroxy-3,7,3'-trimethoxyflavone	<i>E.glabrifolia</i>	375.12659	1.71843	C ₁₉ H ₁₈ O ₈	[M+H] ⁺
Phenolic acids	others	isobauerenol	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	385.27438	62.6268 8	C ₂₇ H ₄₄ O	[M+H] ⁺
Phenolic acids	others	citroside A	<i>E.fargesii</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	387.15704	5.18553	C ₁₉ H ₃₀ O ₈	[M+H] ⁺
Phenolic acids	others	austroside B	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	387.16989	2.20911	C ₁₉ H ₃₀ O ₈	[M+H] ⁺
Phenolic acids	others	corchoionoside B	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	401.14209	2.37908	C ₁₉ H ₂₈ O ₉	[M+H] ⁺
Phenolic acids	others	austroside A	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	403.13895	6.27573	C ₁₉ H ₃₀ O ₉	[M+H] ⁺
Phenolic acids	others	isolimonexic acid	<i>E.austrosinensis</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	503.20078	10.2755 8	C ₂₆ H ₃₀ O ₁₀	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
Phenolic acids	others	epimedoside C	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.lepta</i>	517.22107	31.9139 4	C ₂₆ H ₂₈ O ₁₁	[M+H] ⁺
Phenolic acids	others	ruteavine acetate	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	529.32281	48.2883 8	C ₂₈ H ₃₂ O ₁₀	[M+H] ⁺
Phenolic acids	others	dichromene A	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	571.18207	20.5870 0	C ₃₂ H ₄₂ O ₉	[M+H] ⁺
Phenolic acids	others	dichromene B	<i>E.rutaecarpa</i>	571.43311	79.3159 6	C ₃₂ H ₄₂ O ₉	[M+H] ⁺
Phenolic acids	others	shewanellines A	<i>E.lepta</i> , <i>E.sutchuenensis</i>	260.09839	0.92638	C ₁₇ H ₁₃ N ₂ O ₂	[M+H] ⁺
Phenolic acids	others	leptonol methylleptol	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	279.13120	27.7954 8	C ₁₅ H ₁₈ O ₅	[M+H] ⁺
Phenolic acids	others	quercetin	<i>E.compacta</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i>	303.04379	13.8080 5	C ₁₅ H ₁₀ O ₇	[M+H] ⁺
Phenolic acids	others	2-(1'-geranyloxy)-4,6,β-trihydroxyacetophenone	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	305.22549	73.3024 5	C ₁₈ H ₂₄ O ₅	[M+H] ⁺
Phenolic acids	others	ethylleptol A	<i>E.glabrifolia</i>	323.18338	71.0498 0	C ₁₈ H ₂₆ O ₅	[M+H] ⁺
Phenolic acids	others	floridolide A	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i>	337.23859	56.8899 8	C ₂₀ H ₃₂ O ₄	[M+H] ⁺
Phenolic acids	others	hydroxy lacton	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.lepta</i>	363.16440	72.4542 3	C ₂₀ H ₂₆ O ₆	[M+H] ⁺
Phenolic	others	ternatin	<i>E.compacta</i> , <i>E.fargesii</i> , <i>E.rutaecarpa</i>	375.09885	1.39462	C ₁₉ H ₁₈ O ₈	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
acids							
Phenolic acids	others	dihydrophaseic acid 4'-O- β -D-glucopyranoside	<i>E.ailanthifolia</i> , <i>E.compacta</i> , <i>E.delavayi</i> , <i>E.glabrifolia</i> , <i>E.sutchuenensis</i>	384.18799	65.9426 3	C ₂₁ H ₃₂ O ₁₀	[M+H] ⁺
Phenolic acids	others	methylleptol A	<i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	309.15390	3.57367	C ₁₇ H ₂₄ O ₅	[M+H] ⁺
Phenolic acids	others	3-methylquercetin(5,4'-dihydroxy-3,7,8,3'-tetramethoxyflavone)	<i>E.compacta</i> , <i>E.glabrifolia</i> , <i>E.sutchuenensis</i>	317.07518	20.6356 2	C ₁₆ H ₁₂ O ₇	[M+H] ⁺
Phenolic acids	others	melofolione b	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	319.14468	16.0738 4	C ₁₈ H ₂₂ O ₅	[M+H] ⁺
Phenolic acids	others	4-(1'-geranyloxy)- β ,2,6-trihydroxyacetophenone	<i>E.lepta</i>	321.16071	28.7367 1	C ₁₈ H ₂₄ O ₅	[M+H] ⁺
Phenolic acids	others	4-(1'-geranyloxy)- β ,2,6-dihydroxyacetophenone	<i>E.compacta</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	389.22079	55.7702 0	C ₁₈ H ₂₄ O ₄	[M+H] ⁺
Phenolic acids	others	4-(1'-geranyloxy)-2,6, β -trihydroxy-3-dimethylallylacetophenone	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i>	389.23239	32.3091 1	C ₂₃ H ₃₂ O ₅	[M+H] ⁺
Phenolic acids	others	chrysophanol	<i>E.ailanthifolia</i> , <i>E.compacta</i>	255.08670	35.6637 8	C ₁₅ H ₁₀ O ₄	[M+H] ⁺
Phenolic acids	others	3,7-dimethylkaempferol	<i>E.compacta</i> , <i>E.fargesii</i>	345.10529	1.06125	C ₁₈ H ₁₆ O ₇	[M+H] ⁺
Phenolic	others	diosmetin-7-O- β -D-	<i>E.ailanthifolia</i>	463.23499	20.3475	C ₂₂ H ₂₂ O ₁₁	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
acids		glucopyranoside			0		
Terpene	limonins	limonin	<i>E.ailanthifolia</i> , <i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	471.19189	16.4031 9	C ₂₆ H ₃₀ O ₈	[M+H] ⁺
Terpene	limonins	evodol	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.daniellii</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.lepta</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	485.32550	63.2982 9	C ₂₆ H ₂₈ O ₉	[M+H] ⁺
Terpene	limonins	rutaevine	<i>E.austrosinensis</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i> , <i>E.sutchuenensis</i>	487.36829	77.0922 1	C ₂₆ H ₃₀ O ₉	[M+H] ⁺
Terpene	limonins	shihulimonin A1	<i>E.austrosinensis</i> , <i>E.compacta</i> , <i>E.delavayi</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i> , <i>E.rutaecarpa</i>	503.20078	18.5426 2	C ₂₆ H ₃₀ O ₁₀	[M+H] ⁺
Terpene	limonins	euodirutaecins B	<i>E.fargesii</i> , <i>E.glabrifolia</i>	517.35150	75.2703 8	C ₂₆ H ₂₈ O ₁₁	[M+H] ⁺
Terpene	limonins	euodirutaecins A	<i>E.austrosinensis</i> , <i>E.fargesii</i> , <i>E.fraxinifolia</i> , <i>E.glabrifolia</i>	517.37317	66.3468 1	C ₂₆ H ₂₈ O ₁₁	[M+H] ⁺
Alkaloids	Indole quinazoline alkaloids	13-methyl-13H-indolo [2', 3':3, 4]pyrido[2,1,β]quinazolin- 5-one	<i>E.austrosinensis</i> , <i>E.fargesii</i> , <i>E.glabrifolia</i>	300.35172	49.6538 4	C ₁₉ H ₁₃ N ₃ O	[M+H] ⁺
Alkaloids	Indole	13β-acetongl-hydroxy-	<i>E.fargesii</i> , <i>E.rutaecarpa</i>	360.44376	24.3485	C ₂₂ H ₂₁ N ₃ O ₂	[M+H] ⁺

Class I	Class II	Compounds	Species	Molecular Weight	Rt (min)	Formula	Ionization model
	quinazoline alkaloids	evodiamine			9		
Alkaloids	Indole quinazoline alkaloids	7 β -hydroxyrutaecarpine	<i>E.glabrifolia</i>	304.32721	18.3454 1	C ₁₈ H ₁₃ N ₃ O ₂	[M+H] ⁺
Phenolic acids	Flavonoids	sinapyl alcohol 9- <i>O</i> -feruloyl-4- <i>O</i> - β -D-glucopyranoside	<i>E.glabrifolia</i>	549.56239	29.6759 4	C ₂₇ H ₃₂ O ₁₂	[M+H] ⁺

