

Supplementary Table S1. Major components of *Pseudotsuga menziesii* from different geographical locations.

Compound	P.m.g. #1 (this work)	P.m.g. #2 (this work)	P.m.g. #3 (this work)	Washington #1 [34]	Washington #2 [16]	Yellowstone [16]	Washington #3 (APRC)	Argentina (APRC)	New Zealand #1 (APRC)
Santene	1.0	1.3	1.7	0.0	0.0	1.8	0.0	0.1	0.0
Tricyclene	1.2	1.8	1.8	0.0	0.0	1.0	0.1	0.2	0.1
α -Pinene	6.3	9.1	11.2	6.2	6.4	7.0	12.8	9.8	13.7
Camphene	15.0	15.2	19.5	0.4	0.4	17.0	0.6	1.9	0.6
Sabinene	0.5	0.2	0.5	14.0	12.9	0.1	4.6	8.8	4.2
β -Pinene	3.0	2.6	3.7	25.8	25.5	2.5	37.4	29.5	32.7
δ -3-Carene	0.5	0.3	0.0	0.5	1.8	0.6	3.7	3.0	7.0
Limonene	3.9	5.4	4.0	0.8	1.6	6.6	1.8	2.2	2.2
β -Phellandrene	0.4	0.4	0.4	1.7	2.3	5.1	1.8	2.0	1.7
(Z)- β -Ocimene	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.2
(E)- β -Ocimene	5.4	2.3	0.7	0.0	0.1	0.0	0.4	0.3	0.4
γ -Terpinene	0.4	0.2	0.2	5.8	5.4	0.1	4.1	5.9	4.0
Terpinolene	1.5	1.1	1.0	16.8	14.6	1.2	9.1	12.6	9.4
Camphene hydrate	0.8	2.0	0.7	0.0	0.0	2.0	0.0	0.0	0.0
Borneol	0.7	0.8	1.0	0.0	0.0	1.3	0.1	0.0	0.0
Terpinen-4-ol	1.4	0.7	0.8	12.2	12.1	0.5	5.4	5.1	6.2
α -Terpineol	0.8	1.0	0.9	1.9	2.4	0.3	2.1	1.0	1.8
Bornyl acetate	40.2	41.1	38.7	0.1	0.2	44.7	0.2	1.1	0.2
Citronellyl acetate	2.3	1.1	0.5	1.9	1.2	0.1	3.7	3.1	3.8
Geranyl acetate	2.7	0.5	0.2	1.9	2.1	0.2	2.1	1.3	2.0

Supplementary Table S1. Continued.

Compound	New Zealand #2 (APRC)	Arizona #1 [16]	New Mexico [16]	Austria (glauca) [35]	Bulgaria #1 [36]	Bulgaria #2 [37]	Arizona #2 [31]	Romania #1 [[38]	Romania #2 [38]	Serbia [39]
Santene	0.0	2.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tricyclene	0.1	2.2	2.5	0.0	0.0	0.0	3.9	0.0	0.0	0.0
α -Pinene	13.6	9.7	4.5	6.2	6.5	0.0	15.8	3.9	9.2	4.9
Camphene	0.6	24.6	26.4	1.0	0.4	0.1	28.5	0.2	0.5	0.3
Sabinene	5.4	0.0	0.0	15.4	14.9	21.0	0.0	30.0	14.2	17.9
β -Pinene	27.4	8.1	3.2	13.4	20.8	39.5	14.5	7.2	30.3	15.2
δ -3-Carene	8.2	0.7	0.8	4.3	0.0	0.0	0.7	0.0	0.0	2.3
Limonene	2.6	5.0	6.0	3.2	1.1	0.4	12.2	1.7	2.5	2.8
β -Phellandrene	1.7	3.4	4.3	0.3	0.6	0.5	0.0	7.2	5.1	2.8
(Z)- β -Ocimene	0.2	0.0	0.0	0.1	0.3	7.1	1.4	0.1	0.1	0.0
(E)- β -Ocimene	0.3	0.0	0.5	0.3	0.4	0.3	0.0	0.4	0.2	0.0
γ -Terpinene	4.6	0.1	0.2	4.2	4.4	1.8	0.0	0.0	0.0	5.5
Terpinolene	11.2	1.0	1.2	7.3	11.8	20.2	1.7	23.2	12.7	22.7
Camphene hydrate	0.0	1.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Borneol	0.0	2.2	1.5	0.3	0.0	0.1	0.5	0.1	0.2	0.0
Terpinen-4-ol	7.2	0.2	0.2	9.2	9.6	0.0	0.3	11.5	9.2	9.2
α -Terpineol	1.7	0.2	0.8	1.4	2.5	1.9	0.4	0.6	1.1	0.5
Bornyl acetate	0.3	32.4	28.9	3.1	0.0	0.3	0.0	0.0	0.0	0.0
Citronellyl acetate	3.3	0.1	0.4	5.1	1.5	0.5	0.0	0.1	2.1	5.5
Geranyl acetate	1.4	0.0	0.3	3.6	0.0	0.3	0.0	0.0	0.0	0.9