Supplementary Materials: Chemical Variability and Biological Activities of *Eucalyptus* spp. Essential Oils

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Table 1S. Major chemical components for *Eucalyptus* spp. essential oils

Eucalyptus spp.	Origin	Components of *Eucalyptus* EOs	EOs yields (%)	Reference
E. alba	Democratic Republic of Congo	*β*-pinene (25.3%), *β*-terpineol (13.6 %)	0.22 [1]	[1]
	Nigeria	*α*-thujene (32.9%), 1,8-cineole (13.3%), *p*-cymene (12.9%)	0.28	[2]
E. approximans	Australia	1,8-cineole (61.1%), limonene (14.5%), *α*-pinene (9.7%)	-	[3]
E. astringens	Tunisia	1,8-cineole (60.0%), *trans*-pinocarveol (8.9%), *α*-pinene (6.7%)	1.2	[4]
	Tunisia	1,8-cineole (43.7%), *α*-pinene (21.3%)	3.80	[5,6]
	Tunisia	*α*-pinene (29.8%), 1,8-cineole (17.3%), viridiflorol (11.2%)	1.49	[7]
	Tunisia	*α*-pinene (29.8%), 1,8-cineole (17.3%), viridiflorol (11.2%)	1.10-1.98	[8]
E. badjensis	Argentina	1,8-cineole (71.7%), *β*-eudesmol (7.8%)	-	[9,10]
E. badjensis x E. nitens	Argentina	1,8-cineole (82.8%), limonene (5.9%)	-	[9,10]
E. benthamii	Brazil	*α*-pinene (54.0%), viridiflorol (17.1%), 1,8-cineole (9.9%)	2.60	[11]
E. bicostata	Tunisia	1,8-cineole (68.0%), globulol (5.4%)	3.00	[6,12]
	Tunisia	1,8-cineole (81.3%), *trans*-pinocarveol (4.5%), pinocarvone (3.9%)	2.00	[4]
	Australia	1,8-cineole (63.0%), *α*-pinene (14.4%), limonene (10.9 %)	-	[3]
E. botryoides	Morocco	1,8-cineole (18.4%), *p*-cymene (12.6%), *α*-pinene (9.4%)	0.40	[13,14]
	Argentina	*p*-cymene (19.9%), *α*-eudesmol (15.0%), 1,8-cineole (13.3%)	-	[9,10]
E. brockwayii	Australia	*α*-pinene (31.1%), isopentyl isovalerate (20.2%), 1,8-cineole (16.9%)	-	[15]
	Australia	1,8-cineole (37.1%), *trans*-pinocarveol (7.0%), globulol (6.9%)	-	[16]
E. camaldulensis	Egypt	1,8-cineole (60.3%), *α*-pinene (13.6%), *γ*-terpinene (8.8%)	-	[17]
	Northern Cyprus	1,8-cineole (19.0%), *β*-caryophyllene (11.6%), carvacrol (9.1%)	-	[18]
	Pakistan	linalool (17.0%), 1,8-cineole	1.90	[19]

		(16.1%), *p*-cymene (12.2%)		
	Democratic Republic of Congo	1,8-cineole (58.9%), myrtenol (4.3%), myrtenal (3.5%)	0.30 [1]	[1]
	India	1,8-cineole (8.7%), *α*-phellandrene (27.5%), *β*-pinene (23.5%), *m*-cymene (9.5%)	1.97 [1]	[20]
	Nigeria	1,8-cineole (70.4%), *β*-pinene (9.0%), *α*-pinene (8.8%)	0.26	[2]
	Taiwan	1,8-cineole (29.6%), limonene (15.2%), *β*-pinene (9.9%), *α*-pinene (9.7%)	3.48	[21]
	Iran	1,8-cineole (74.7%)	-	[22]
	Brazil	1,8-cineole (52.8%), limonene (14.2%), *γ*-terpinene (6.8%), *α*-pinene (6.1%)	0.63	[23,24]
	Taiwan	*α*-pinene (22.5%), *p*-cymene (21.7%), *α*-phellandrene (20.1%), 1,8-cineole (9.5%)	0.57	[25]
	Tunisia	1,8-cineole (20.6%), *α*-pinene (16.5%)	0.76-1.42	[8,26]
	Argentina	1,8-cineole (19.1%), *p*-cymene (17.9%), *β*-phellandrene (16.3%)	0.38	[27-29]
	Kenya	1,8-cineole (18.9%), *α*-cadinol (6.4%), *β*-phellandrene (2.6%)	-	[30]
	Spain	spathulenol (41.5%), *p*-cymene (21.9%)	0.71	[31]
E. cinerea	Tunisia	1,8-cineole (70.4%), *α*-terpineol (10.3%)	3.90	[12]
	Brazil	1,8-cineole (75.7%), *α*-terpineol (9.7%), *α*-pinene (6.2%)	6.07	[32]
	Brazil	1,8-cineole (83.6%), *α*-terpinyl acetate (5.4%), *α*-pinene (5.0%)	3.56-5.02	[33]
	Tunisia	1,8-cineole (79.2%), *α*-terpinyl acetate (5.4%), *α*-pinene (4.1%)	3.00	[4]
	Argentina	1,8-cineole (88.5%), *α*-terpineol (9.0%), *α*-pinene (2.0%)	-	[34]
	Argentina	1,8-cineole (79.8%), *α*-terpinyl acetate (8.2%)	2.48	[27,28]
	Argentina	1,8-cineole (56.9%), *α*-pinene (6.4%)	-	[35]
	Argentina	1,8-cineole (62.1%), *p*-cymene (11.2%)	-	[36]
E. citriodora	Pakistan	citronellal (22.3%), citronellol (20.0%)	1.82	[19]
	Australia	citronellal (68.9%), citronellol (7.6%), isopulegol (7.4%)	-	[37]
	Brazil	citronellal (61.8%), isopulegol (15.5%), *β*-citronellol (7.9%)	-	[38]
	Indonesia	citronellal (90.1%), citronellol (4.3%)	-	[39]
	Democratic Republic of Congo	citronellal (72.7%), citronellol (6.3%), eugenol (3.5%)	1.63 [1]	[1]
	Morocco	1,8-cineole (54.1%), *α*-pinene (23.6%)	3.30	[13,14]
	Brazil	citronellal (82.3%), citronellyl	4.00	[40]

		acetate (7.8%), neothujan-3-ol (6.8%)		
	South Korea	citronellal (73.0%), isopulegol (6.7%)	-	[41]
	Taiwan	citronellal (49.5%), citronellol (11.9%), *iso*-isopulegol (10.4%)	1.89	[21]
	Brazil	citronellal (67.5%), citronellol (6.9%), menthol (6.1%)	-	[42]
	Brazil	β-citronellal (71.8%), (-)-isopulegol (7.3%), isopulegol (4.3%)	-	[43]
	Brazil	citronellal (94.9%), citronellyl acetate (2.6%), *trans* caryophyllene (2.5%)	-	[44]
	Chian	citronellal (65.9%), citronellol (10.5%), 1,8-cineole (3.0%)	-	[45,46]
	China	citronellal (55.3%), citronellol (8.3%)	-	[47]
	Brazil	citronellal (76.0%), *neo*-*iso*-3-thujanol (11.8%)	0.66	[23,24]
	Benin	citronellal (52.8%), citronellol (20.0%), citronellyl acetate (9.0%)	4.60	[48]
	Brazil	citronellal (71.8%), isopulegol (4.3%)	-	[49]
	Brazil	citronellal (89.6%), citronellyl acetate (3.3%), 1,8-cineole (2.9%)	-	[50]
	Colombia	citronellal (49.3%), citronellol (13.0%), isopulegol (12.9%)	0.70	[51]
	Brazil	citronellal (71.1%), citronellol (8.8%)	-	[52]
	Kenya	1,8-cineole (11.2%), β-pinene (3.2%), terpinen-4-ol (3.1%)	-	[30]
	Benin	citronellal (52.8%), citronellol (20.0%), citronellyl acetate (9.0%)	4.60	[53]
	Colombia	citronellal (40.0%), isopulegol (14.6%), citronellol (13.0%)	-	[54,55]
	Argentina	citronellal (76.0%), iso-isopulegol (9.0%), citronellyl acetate (7.3%)	-	[36]
	India	citronellal (52.2%), citronellol (12.3%), isopulegol (11.9%)	0.60	[56]
	Brazil	citronellal (64.9%), *iso*-isopulegol (10.2%), citronellol (8.3%)	2.10	[57]
	India	citronellal (48.3%), citronellol (21.9%), *iso*-isopulegol (12.7%)	2.36-4.80	[58]
E. cloeziana	Brazil	myrcene (31.8%), β-pinene (29.5%), 9-epicaryophyllene (6.6%)	0.75	[40]
	Brazil	α-pinene (76.1%), α-terpineol (3.8%), β-caryophyllene (2.3%)	0.17	[23,24]
E. crebra	Pakistan	α-pinene (16.0%), β-phellandrene (14.3%)	1.84	[19]
E. darlympleana	Argentina	1,8-cineole (80.3%), p-cymene	-	[9,10]

		(5.6%)		
E. deglupta	Nigeria	*E*-*β*-nerolidol (34.8%), *α*-pinene (24.7%)	0.20	[2]
	Democratic Republic of Congo	1,8-cineole (35.7%), cryptone (25.4%), myrtenol (7.4%), *α*-phellandrene (7.2%)	0.15 [1]	[1]
E. diversifolia	Tunisia	1,8-cineole (37.0%), *trans*-pinocarveol (7.0%)	0.80	[5,59]
E. dives	South Africa	piperitone (73.5%), terpinen-4-ol (7.9%)	-	[60]
	Australia	piperitone (40.5%), *α*-phellandrene (17.4%), *p*-cymene (8.5%)	2.97	[61]
E. dorrigoensis	Argentina	1,8-cineole (74.7%), viridiflorol (7.4%)	-	[9,10]
E. dundasii	Iran	1,8-cineole (54.2%), p-cymene (12.4%), *α*-thujene (11.4%)	1.53	[62]
	Australia	1,8-cineole (65.5%), *α*-pinene (19.9%)	-	[15]
	Australia	1,8-cineole (80.1%), *trans*-pinocarveol (4.3%)	-	[16]
E. dunnii	Argentina	1,8-cineole (49.6%), γ-terpinene (11.9%), p-cymene (7.0%)	-	[63,64]
	Argentina	1,8-cineole (48.5%), γ-terpinene (13.0%), *α*-pinene (5.5%)	0.62	[27,28]
	Brazil	1,8-cineole (53.5%), *α*-pinene (21.5%), viridiflorol (8.3%)	2.00	[11]
E. elata	Argentina	*α*-phellandrene (16.0%), β-phellandrene (14.5%), p-cymene (14.8%), cis-p-menth-2-en-1-ol (12.2%)	-	[9]
E. erythrocorys	Tunisia	1,8-cineole (54.8%), *α*-pinene (7.8%)	0.90	[65]
E. fastigata	Argentina	p-cymene (37.6%), 1,8-cineole (14.7%), β-phellandrene (9.2%)	-	[9,10]
E. fraxinoides	Argentina	p-cymene (35.5%), 1,8-cineole (13.4%), β-phellandrene (8.8%)	-	[9]
E. floribundi	Iran	1,8-cineole (58,0%), *α*-pinene (26.2%)	-	[66]
E. globulus	Iran	1,8-cineole (84.5%), limonene (8.50%)	-	[67]
	Ethiopia	1,8-cineole (63.0%), *α*-pinene (16.1%)	-	[68]
	Spain	1,8-cineole (63.8%), *α*-pinene (16.1%)	-	[69]
	Pakistan	1,8-cineole (56.5%), limonene (28.0%)	1.89	[19]
	Algeria	1,8-cineole (55.3%), spathulenol (7.4%), *α*-terpineol (5.5%)	2,53	[70]
	Indonesia	1,8-cineole (86.5%), *α*-pinene (4.7%)	-	[39]
	Democratic Republic of Congo	1,8-cineole (44.3%), camphene (23.1%), *α*-pinene (9.3%), globulol (7.3%)	1.87 [1]	[1]
	Montenegro	1,8-cineole (85.8%), *α*-pinene (7.2%), *β*-myrcene (1.5%)	1.80 [1]	[71]
	Morocco	1,8-cineole (22.4%), limonene	1.21	[72]

		(7.0%), solanone (6.1%), β-pinene (5.2%)		
	Italy	1,8-cineole (84.9%), α-pinene (5.6%), *p*-cymene (5.3%)	-	[73]
	India	1,8-cineole (81.9%), limonene (6.6%)	-	[74]
	Brazil	1,8-cineole (83.9%), limonene (8.2%), α-pinene (4.2%)	-	[75]
	Iran	1,8-cineole (47.2%), spathulenol (18.1%), α-pinene (9.6%)	-	[76]
	India	1,8-cineole (44.4%), limonene (17.8%), *p*-cymene (9.5%)	-	[77]
	Brazil	1,8-cineole (90.0%), tricyclene (3.0%)	-	[78]
	Brazil	1,8-cineole (85.8%), α-pinene (9.9%)	-	[44]
	Argentina	1,8-cineole (52,3-62.1%)	1.31-1.49	[79]
	Kenya	1,8-cineole (17.2%), α-pinene (7.1%), spathulenol (6.5%)	-	[30]
	India	1,8-cineole (33.6%), α-pinene (14.2%), limonene (10.1%)	-	[80]
	Australia	1,8-cineole (81.1%), limonene (7.6%), α-pinene (4.0%)	-	[81]
	Argentina	1,8-cineole (77.9%), α-terpineol (6.0%)	2.25	[27,28]
	Brazil	1,8-cineole (83.9%), limonene (8.2%), α-pinene (4.2%)	-	[49]
	Brazil	1,8-cineole (77.5%), α-pinene (14.2%)	3.10	[11]
	India	1,8-cineole (68.8%), α-pinene (2.8%)	-	[82]
	India	1,8-cineole (66.3%), cis-ocymene (21.3%), α-terpinyl acetate (3.4%)	-	[83]
	Argentina	1,8-cineole (76.7%), α-pinene (11.1%)	1.66	[27,64]
	Egypt	1,8-cineole (21.4%), *o*-cimene (21.4%), α-pinene (6.7%), spathulenol (6.3%)	-	[84]
	Australia	1,8-cineole (90.0%), α-pinene (2.2%)	-	[85]
E. gracilis	Tunisia	1,8-cineole (71.6%), α-pinene (18.2%)	7.30	[86]
E. grandis	Brazil	γ-terpinene (16.8%), *o*-cymene (16.7%), β-pinene (11.5%)	2.00	[40]
	Taiwan	1,8-cineole (19.8%), α-terpinyl acetate (12.8%), α-pinene (11.4%)	3.01	[21]
	Argentina	α-pinene (52.7%), 1,8-cineole (18.4%), p-cymene (8.7%)	0.36	[29,63,87]
	Brazil	α-pinene (40.6%), γ-terpinene (16.3%), p-cymene (13.1%)	0.31	[23,24]
E. grandis x E. camaldulensis	Argentina	1,8-cineole (49.7%), α-pinene (30.7%)	0.54	[27-29,63]
E. grandis x E. tereticornis	Argentina	1,8-cineole (63.0%), α-pinene (22.8%)	0.88	[27-29,63]
E. gunnii	Argentina	1,8-cineole (18.0%), p-cymene	0.21	[27,28]

		(12.3%), spathulenol (12.3%)		
	Argentina	1,8-cineole (26.7%), p-cymene (13.6%)	-	[64]
E. lehmannii	Tunisia	1,8-cineole (49,1%), α-pinene (26,4%), α-terpinyl acetate (5,6%)	2.80	[4]
	Tunisia	1,8-cineole (56,6%), α-pinene (17,6%)	3.60	[5]
	Tunisia	1,8-cineole (34.6%), α-pinene (31.6%)	2.20	[7]
	Tunisia	1,8-cineole (34.6%), α-pinene (31.6%)	1.74-2.52	[8]
E. leucoxylon	Tunisia	1,8-cineole (77.8%), α-pinene (5.9%), *trans*-pinocarveol (3.2%)	1.60	[4]
	Tunisia	α-pinene (32.7%), 1,8-cineole (17.6%), globulol (14.7%)	0.58-0.93	[8,26]
E. maculata	Brazil	α-pinene (39.4%), β-caryophyllene (10.3%)	0.07	[23,24]
E. maidenii	Tunisia	1,8-cineole (83.6%), globulol (3.6%), *trans*-pinocarveol (3.4%)	1.50	[4]
	Tunisia	1,8-cineole (57.8%), α-pinene (7.3%)	3.30	[6,12]
	Australia	1,8-cineole (59.8%), α-pinene (17.2%), limonene (5.5%)	-	[3]
E. melanophloia	Pakistan	α-pinene (16.0%), β-phellandrene (14.3%)	1.73	[19]
E. melliodora	Australia	1,8-cineole (54.7%), α-terpineol (9.6%), globulol (3.4%)	-	[16]
E. microcorys	Brazil	1,8-cineole (86.7%), α-terpineol (3.9%)	2.50	[40]
E. microtheca	Pakistan	α-pinene (31.4%), citrinyl acetate (13.2%), *p*-cymene (12.4%)	1.84	[19]
E. nobilis	Argentina	1,8-cineole (30.4%), p-cymene (18.2%), α-pinene (12.9%), viridiflorol (11.3%)	-	[9,10]
E. oblicua	Argentina	p-cymene (25.4%), piperitone (23.2%)	-	[9]
E. odorata	Tunisia	cryptone (20.9%), *p*-cymene (16.7%)	1.70	[6,12]
E. oleosa	Tunisia	1,8-cineole (41.2%), α-pinene (21.8%)	4.90	[86]
E. polybractea	Argentina	1,8-cineole (85.0%), p-cymene (4.1%)	-	[9,10]
E. radiata	Australia	limonene (68.5%), α-terpineol (8.6%), α-terpenyl acetate (6.1%)	-	[69]
	Argentina	1,8-cineole (68.4%), α-terpineol (12.4%), limonene (7.3%)	-	[9,10]
E. resinifera	Argentina	1,8-cineole (58.6%), p-cymene (12.0%), α-pinene (10.0%)	-	[9,10]
E. robertsonii	Argentina	1,8-cineole (62.0%), α-terpineol (8.6%)	-	[9,10]
E. robusta	Democratic Republic of Congo	*p*-cymene (27.3%), myrtenal (12.8%), β-pinene (6.3%), α-terpineol (6.3%)	0.13 [1]	[1]
	Brazil	α-pinene (73.0%), limonene	0.20	[88]

		(8.3%)		
E. rubida	Argentina	1,8-cineole (82.5%), limonene (4.1%)	-	[9,10]
E. rudis	Tunisia	1,8-cineole (19.9%), α-pinene (14.5%)	0.74-2.09	[8]
E. saligna	Democratic Republic of Congo	1,8-cineole (61.3%), limonene (10.1%), *p*-cymene (7.2%)	0.78 [1]	[1]
	Brazil	*p*-cymene (25.6%), α-terpineol (9.3%), α-camphonelal (8.0%), 1,8-cineole (6.2%)	0.50	[40]
	Nigeria	α-thujene (63.8%), 1,8-cineole (12.3%)	0.30	[2]
	Brazil	α-pinene (45.1%), *p*-cymene (22.5%), α-pinene oxide (11.3%)	0.40	[88]
	Argentina	1,8-cineole (93.2%)	-	[89]
	Brazil	α-pinene (25.9%), p-cymene (24.4%), γ-terpinene (24.6%)	0.19	[23,24]
	Argentina	1,8-cineole (34.0%), p-cymene (21.3%), γ-terpinene (20.10%), α-pinene (13.0%)	0.36	[27,28]
	Brazil	1,8-cineole (45.2%), p-cymene (34.4%), α-pinene (12.8%)	0.50	[11]
	Argentina	1,8-cineole (93.2%), limonene (3.3%)	-	[36]
	Kenya	α-pinene (24.4%), 1,8-cineole (24.3%), *o*-cimene (9.9%), α-terpineol (8.8%)	0.38	[90]
E. olida	Australia	*(E)*-methyl cinnamate (99.4%)	3.12	[61]
E. ovata	Morocco	1,8-cineole (41.6%), *trans*-pinocarveol (13.8%), α-pinene (13.5%)	1.20	[13,14]
E. pellita	Cuba	α-pinene (27.2%), limonene (23.8%), 1,8-cineole (19.0%)	0.89	[91]
E. platyphylla	Ivory Coast	limonene (26.4%), 1,8-cineole (20.0%), γ-terpinene (18.9%)	-	[92]
E. platypus	Tunisia	1,8-cineole (22.5%), spathulenol (11.2%), α-pinene (9.4%)	1.90	[5,6]
E. propinqua	Democratic Republic of Congo	1,8-cineole (32.4%), α-pinene (20.3%), β-pinene (9.3%), α-terpineol (7.4%)	0.65 [1]	[1]
E. radiata	Indonesia	1,8-cineole (82.7%), α-terpineol (7.0%), α-pinene (3.7%)	-	[39]
E. salmonophloia	Tunisia	1,8-cineole (59.3%), α-pinene (10.7%)	4.60	[86]
E. salubris	Tunisia	1,8-cineole (71.3%), *trans*-pinocarveol (6.0%)	4.80	[86]
E. sargentii	Iran	1,8-cineole (55.5%), α-pinene (21.0%), aromadendrene (6.5%)	1.40	[93]
E. sideroxylon	Tunisia	1,8-cineole (80.8%), α-pinene (5.8%), limonene (3.3%)	3.00	[4]
	Tunisia	1,8-cineole (69.2%), α-pinene (6.9%)	2.70	[6,12]
	Australia	1,8-cineole (54.4%), limonene (11.9%), α-pinene (8.2%)	-	[3]
	Argentina	1,8-cineole (91.3%), α-terpineol (2.6%)	1.65	[27,28,63,64]

E. smithii	Brazil	1,8-cineole (72.2%), *α*-terpineol (7.5%)	-	[94]
	Argentina	1,8-cineole (78.5%), limonene (5.9%)	-	[9,10]
E. staigeriana	Australia	1,8-cineole (34.8%), neral (10.8%), geranial (10.8%)	2.13	[61]
	Brazil	limonene (28.8%), *E*-citral (14.2%), *Z*-citral (10.8%)	-	[95]
	Brazil	limonene (72.9%), 1,8-cineole (9.5%), *o*-cymene (4.6%)	-	[96]
	Brazil	geranial (16.0%), geraniol (14.8%)	-	[97]
	Brazil	limonene (24.8%), *E*-citral (15.0%), *Z*-citral (11.4%), *α*-terpinolene (10.8%)	-	[44]
	China	*β*-thujene (25.5%), geraniol (21.7%), *β*-citral (17.8%)	-	[47]
	Brazil	limonene (28.8%), geranial (15.2%), neral (12.2%)	-	[50]
	Brazil	limonene (28.8%), E-citral (14.1%), Z-citral (10.8%)	-	[49]
E. tereticornis	Benin	*p*-cymene (31.1%), *β*-phellandrene (9.7%)	-	[98]
	Democratic Republic of Congo	*p*-cymene (28.6%), cryptone (17.8%), *α*-pinene (8.3%)	0.45 [1]	[1]
	Benin	*p*-cymene (31.1%), *β*-phellandrene (9.7%)	-	[98]
	Benin	*p*-cymene (16.7%), caryophyllene oxide (14.2%), spathulenol (13.5%), cryptone (11.4%)	1.00	[48]
	Argentina	β-phellandrene (22.6%), 1,8-cineole (18.6%), p-cymene (14.5%), *α*-phellandrene (9.4%)	0.60	[27-29]
	Argentina	1,8-cineole (37.5%), p-cymene (22.0%), γ-terpinene (10.8%)	-	[36]
E. urophylla	Democratic Republic of Congo	1,8-cineole (57.7%), *α*-pinene (10.1%), globulol (4.4%)	0.53 [1]	[1]
	Taiwan	*γ*-terpinene (26.2%), *p*-cymene (22.3%), 1,8-cineole (13.9%)	3.14	[21]
	Brazil	1,8-cineole (53.1%), *α*-pinene (8.0%)	0.29	[23,24]
E. viminalis	Argentina	1,8-cineole (85.0%), globulol (2.5%)	-	[63]
	Argentina	1,8-cineole (85.0%), aromadendrene (2.0%)	1.46	[27,28]
	Brazil	1,8-cineole (77.1%), *α*-pinene (14.8%)	2.40	[11]
	Argentina	1,8-cineole (46.9%), γ-terpinene (23.2%), p-cymene (17.4%)	-	[36]

[1] Fresh leaves; (-): not reported

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