



Healing Body, Mind, and Spirit
with Pure Essential Oils Since 1995

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Certificate of Analysis: Juniper Berry Essential Oil, *Juniperus communis*, Canada.

Batch No: CA-14J09-A4

Analysis date: October 10, 2014

Analysis Method: PC-PA-001-14G14, "Analysis of the composition of a liquid essential oil by GC-FID" (in French)

IDENTIFIED COMPOUNDS

Identification	DB-5 Column			SolgelWax Column			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
Tricyclene	11.56	904	0.18	0.19	988	4.42	Monoterpène
α-Pinene	12.38	919	74.76	75.09	1008	4.83	Monoterpène
α-Fenchene	12.97	931	0.45	0.45	1028	5.56	Monoterpène
Camphene	13.04	932	0.55	0.56	1034	5.76	Monoterpène
Sabinene	14.62	963	0.11	0.22	1084	7.54	Monoterpène
β-Pinene	14.73	965	3.95	4.01	1068	6.98	Monoterpène
Myrcene	15.87	987	5.05	4.78	1137	9.44	Monoterpène
2-Carene	16.30	995	0.09	0.08	1093	7.88	Monoterpène
α-Phellandrene	16.53	1000	0.08	0.04	1131	9.21	Monoterpène
Δ3-Carene	16.91	1005	5.78	5.81	1112	8.55	Monoterpène
para-Cymene	17.82	1019	0.11	0.13	1242	14.04	Monoterpène
Limonene	18.10*	1023	1.99	1.21	1171	10.63	Monoterpène
β-Phellandrene	18.10*	1023		0.69	1180	10.97	Monoterpène
γ-Terpinene	20.16	1054	0.06	0.06	1221	12.86	Monoterpène
Terpinolene	22.12	1083	0.72	0.65	1254	14.66	Monoterpène
Linalool	23.04	1096	0.11	0.10	1529	30.28	Alcool monoterpén.
Terpinen-4-ol	28.06	1171	0.25	0.23	1568	32.54	Alcool monoterpén
α-Terpineol	29.00	1185	0.36	0.63	1664	37.87*	Alcool monoterpén
Myrtenol	29.38	1190	0.12	0.29	1742	42.03	Alcool monoterpén
Citronellol	31.81	1227	0.14	0.11	1750	42.49	Alcool monoterpén
iso-3-Thujanyl acetate?	33.91	1260	0.16	0.10	1522	29.87	Ester monoterpén.
Bornyl acetate	35.31	1282	0.37	0.47	1542	31.05	Ester monoterpén.
Methyl geranate	37.90	1322	0.33	0.22	1659	37.60	Ester monoterpén.
trans-Piperityl acetate?	39.44	1346	0.15	0.10	1692	39.33	Ester monoterpén.
β-Elemene	42.10	1387	0.17	0.19	1557	31.91	Sesquiterpène
β-Caryophyllene	43.61	1411	0.11	0.09	1554	31.74	Sesquiterpène
β-Copaene?	44.25	1422	0.15				Sesquiterpène
α-Humulene	45.68	1447	0.11	0.09	1622	35.61	Sesquiterpène
Alloaromadendrene	46.21	1456	0.07	0.10	1612	35.03	Sesquiterpène
Germacrene D	47.34	1475	0.26		1664	37.87*	Sesquiterpène
β-Selinene	47.61	1480	0.12	0.11	1687	39.07	Sesquiterpène
γ-Cadinene	49.34	1509	0.07		1717	40.67*	Sesquiterpène
δ-Cadinene	49.94	1520	0.36	0.43	1717	40.67*	Sesquiterpène
Germacrene B	51.66	1549	0.38	0.35	1776	43.84	Sesquiterpène
trans-Nerolidol	52.38	1561	0.25	0.26	2017	55.81	Sesquiterp. alcohol
Total Identified			97.91			97.84	

*Two or more compounds are coeluting on this column. Note: No correction factor was applied.

OTHER DATA

Physical aspect: Colorless liquid

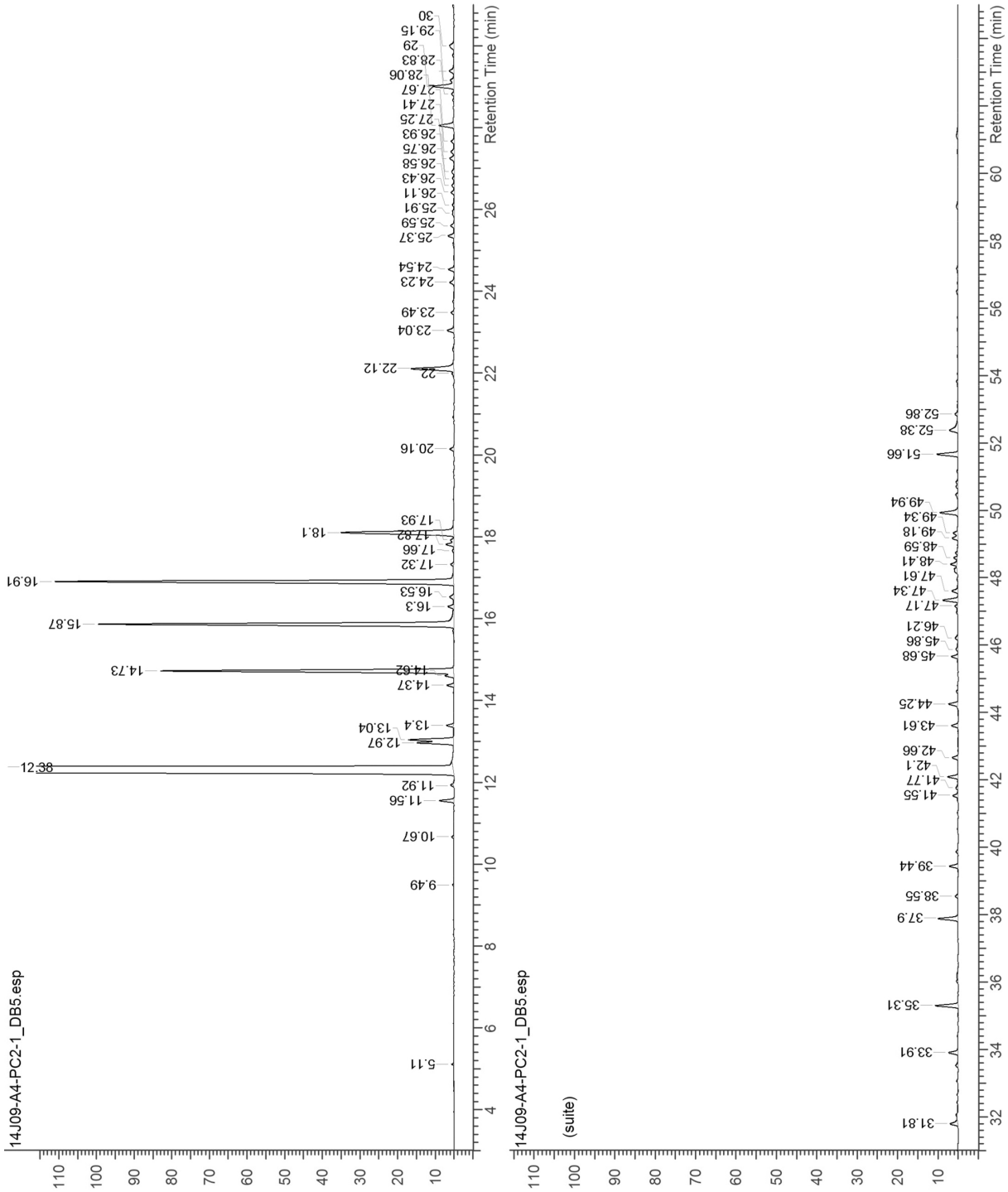
Refractive index: 1.4690 ± 0.0003 (23 °C) (continued)

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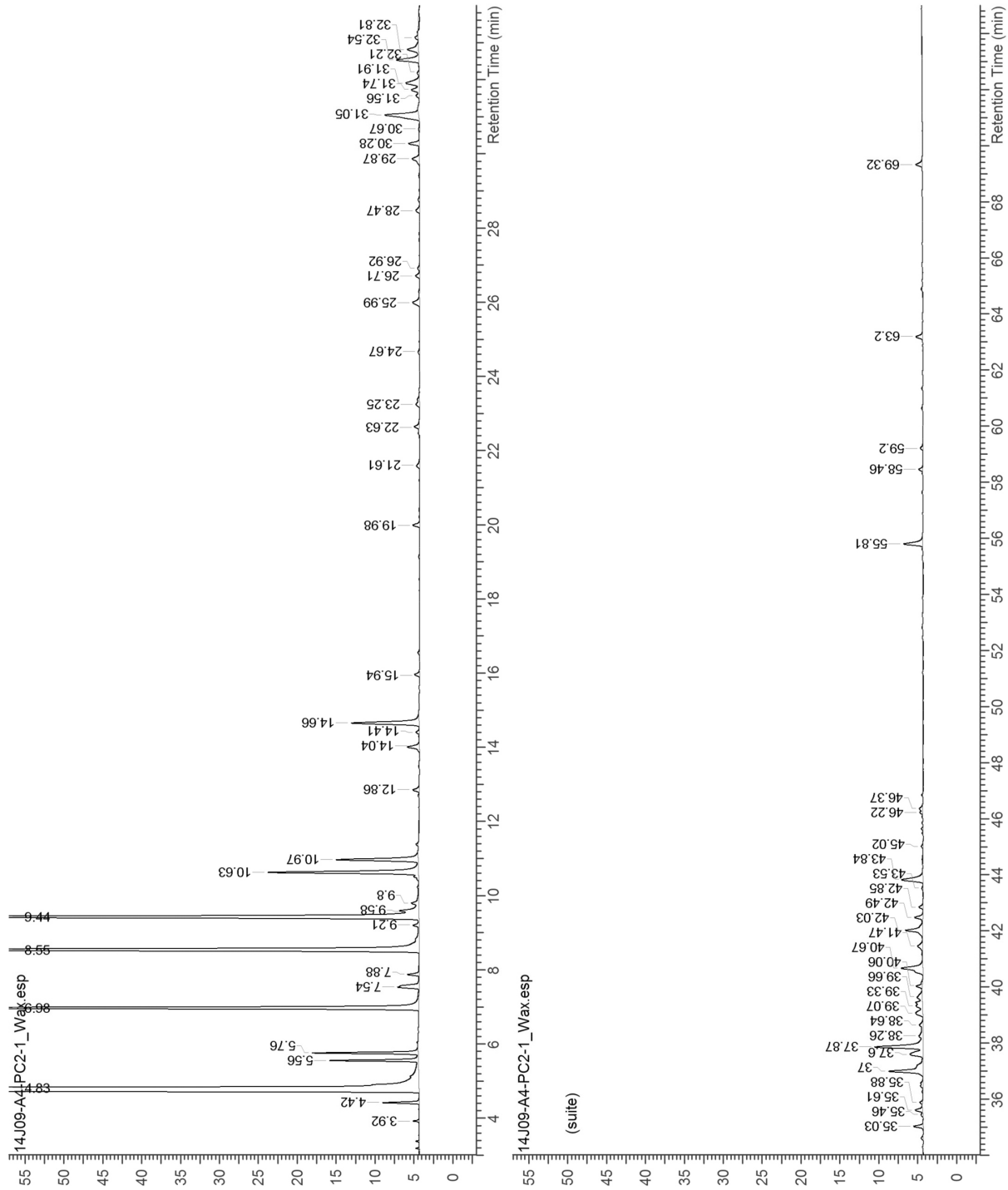


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