Date : 2026-05-19

Certificate of Analysis - GC Profiling (Main Terpenes)

Sample Identification

Internal code : 26E15-DOG01
Customer Identification : Do-Si-Dos - Lot: 1692025DD
Type : Plant material
Source : *Cannabis sativa*
Customer : 2172181 Alberta Ltd. (Dog Star Cannabis)

Checked an approved by:

Sylvain Mercier, M. Sc., Chimiste 2014-005

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia. This report is digitally signed, it is only considered valid if the digital signature is intact. The results only describe the samples that were submitted to the assays. The compliance status of the sample is provided to facilitate the reading of the report. The client remains ultimately responsible for reviewing the results presented within this report and to establish compliance of the tested batch against relevant quality criteria.

Laboratoire PhytoChemia
628 Boulevard du Saguenay Ouest, Saguenay (Qc) G7J 1H4 | www.phytochemia.com

Physicochemical data

Method : PC-MAT-024 - Vegetal material moisture content determination
Moisture content : 14.36 % m/m
Analyst : Kassandra Baker
Date : 2026-05-19

Gas Chromatographic Analysis

Method : PC-MAT-004 - Terpenes and volatiles profiling by response factor
Results : See analysis summary (table)
Analyst : Jean-Christophe Fortin, M. Sc.
Date : 2026-05-19

Reference

(1) Cachet, T.; Brevard, H.; Chaintreau, A.; Demyttenaere, J.; French, L.; Gassenmeier, K.; Joulain, D.; Koenig, T.; Leijs, H.; Liddle, P.; et al. IOFI Recommended Practice for the Use of Predicted Relative-Response Factors for the Rapid Quantification of Volatile Flavouring Compounds by GC-FID. Flavour Fragr. J. 2016, 31 (3), 191–194.

Analysis Summary - Consolidated Contents

Identification	Anhydrous (mg/g)	As is (mg/g)	Class
β-Caryophyllene	8.44	7.22	Sesquiterpene
Myrcene	5.29	4.53	Monoterpene
Linalool	4.48	3.83	Monoterpenic alcohol
Limonene	4.30	3.68	Monoterpene
Selina-4(15),7(11)-diene	2.59	2.22	Sesquiterpene
Selina-3,7(11)-diene	2.56	2.2	Sesquiterpene
α-Humulene	2.43	2.08	Sesquiterpene
Selina-4,7(11)-diene	2.12	1.81	Sesquiterpene
α-Bisabolol	1.05	0.9	Sesquiterpenic alcohol
(*E*)-α-Bisabolene	0.66	0.56	Sesquiterpene
α-Selinene	0.64	0.55	Sesquiterpene
β-Pinene	0.58	0.49	Monoterpene
Eremophila-1(10),7(11)-diene	0.57	0.49	Sesquiterpene
β-Selinene	0.56	0.48	Sesquiterpene
(3*E*,6*E*)-α-Farnesene	0.47	0.4	Sesquiterpene
endo-Fenchol	0.42	0.36	Monoterpenic alcohol
α-Pinene	0.41	0.35	Monoterpene
α-Terpineol	0.40	0.35	Monoterpenic alcohol

Spirovetiva-1(10),7(11)-diene	0.32	0.28	Sesquiterpene
Juniper camphor	0.31	0.27	Sesquiterpenic alcohol
Eudesma-5,7(11)-diene	0.28	0.24	Sesquiterpene
trans-Pinene hydrate	0.26	0.22	Monoterpenic alcohol
Unknown	0.18	0.16	Sesquiterpene
Caryophyllene oxide	0.17	0.14	Sesquiterpenic ether
α-Guaiene	[0.17]	[0.14]	Sesquiterpene
trans-α-Bergamotene	[0.17]	[0.14]	Sesquiterpene
Borneol	0.16	0.14	Monoterpenic alcohol
Terpinolene	0.15	0.13	Monoterpene
Valencene	0.14	0.12	Sesquiterpene
Unknown	0.14	0.12	Sesquiterpene
β-Bisabolene	0.13	0.11	Sesquiterpene
(*E*)-β-Farnesene	0.13	0.11	Sesquiterpene
Selin-6-en-4α-ol isomer	0.13	0.11	Sesquiterpenic alcohol
δ-Guaiene	0.12	0.1	Sesquiterpene
α-Ylangene	0.12	0.1	Sesquiterpene
Camphene	0.11	0.09	Monoterpene
Phytol	0.10	0.09	Diterpenic alcohol
(*E*)-Nerolidol	0.09	0.08	Sesquiterpenic alcohol
Ipsdienol	0.08	0.07	Monoterpenic alcohol
Germacrene B	0.08	0.07	Sesquiterpene
γ-Eudesmol	0.07	0.06	Sesquiterpenic alcohol
Humulene epoxide II	0.07	0.06	Sesquiterpenic ether
Selin-6-en-4α-ol	0.06	0.06	Sesquiterpenic alcohol
β-Eudesmol	0.06	0.05	Sesquiterpenic alcohol
Fenchone	0.05	0.04	Monoterpenic ketone
α-Eudesmol	0.04	0.03	Sesquiterpenic alcohol
β-Phellandrene	0.04	0.03	Monoterpene
cis-Pinene hydrate	0.03	0.03	Monoterpenic alcohol
allo-Aromadendrene	0.03	0.03	Sesquiterpene
Hexyl hexanoate	0.03	0.03	Aliphatic ester
γ-Elemene	0.03	0.02	Sesquiterpene
Camphene hydrate	0.02	0.02	Monoterpenic alcohol
α-Cubebene	0.02	0.02	Sesquiterpene
Aromadendrane-4,10-diol	0.02	0.02	Sesquiterpenic alcohol
meta-Camphorene	0.02	0.02	Diterpene
(2*E*,6*E*)-Farnesol	0.02	0.02	Sesquiterpenic alcohol
α-Santalene	0.02	0.01	Sesquiterpene
10-epi-γ-Eudesmol	0.02	0.01	Sesquiterpenic alcohol
Terpinen-4-ol	0.02	0.01	Monoterpenic alcohol
(*Z*)-β-Ocimene	0.02	0.01	Monoterpene
Guaiol	0.02	0.01	Sesquiterpenic alcohol
(*E*)-β-Ocimene	0.01	0.01	Monoterpene
cis-Sabinene hydrate	0.01	0.01	Monoterpenic alcohol

trans-Sabinene hydrate	0.01	0.01	Monoterpenic alcohol
Cryptomeridiol	0.01	0.01	Sesquiterpenic alcohol
Hexanol	0.01	0.01	Aliphatic alcohol
α-Phellandrene	0.01	0.01	Monoterpene
Decanol	0.01	0.01	Aliphatic alcohol
Bulnesol	0.01	0.01	Sesquiterpenic alcohol
γ-Terpinene	0.01	0.01	Monoterpene
α-Terpinene	0.01	0.01	Monoterpene
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	0.01	0.01	Sesquiterpenic alcohol
para-Cymene	0.01	0.01	Monoterpene
α-Fenchene	0.01	0.01	Monoterpene
Geraniol	0.01	0.01	Monoterpenic alcohol
Hashishene	0.01	0.01	Monoterpene
Δ3-Carene	tr	tr	Monoterpene
α-Thujene	tr	tr	Monoterpene
Sabinene	tr	tr	Monoterpene
Consolidated total	**42.18**	**36.14**	

tr: The compound has been detected below 0.01 mg/g.

[xx]: Duplicate concentration due to coelutions, taken only once into account in the consolidated total

Note: Individual compounds contents were corrected following the method of Cachet et al., 2016 (Flavour and Fragrance Journal guidelines).
Unknown compounds are expressed in equivalents of internal standard without correction factor.

About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm is set to prioritize data from the most standard DB-5 column, and smallest values so as to avoid overestimating individual content. This process is semi-automatic.
Unknowns: The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion. Some recurring, characteristic unknowns are listed for cannabis samples as they are representative of the actual composition of the material.