

CERTIFICATE OF ANALYSIS

Client information

Amani Craft Cannabis Ltd.
Kelowna, Canada, V4V 1S5

COA information

COA number **230509_57123_PAR15211_V2**
COA Date **09-May-2023**
Analysis Request ID **PAR15211**

Sample information

Sample Name **Bubba Punch**
Sample ID **BUBBAPUNCH-BULK001**
Laboratory ID **PAT47303**

Sample Receiving Date **21-Apr-2023**
Receiving Temperature **21°C**

Results information

Analysis Date	Test	Method Ref.	Results	Units
26-Apr-2023	Moisture	PAT-AM-023(USP <731>)	11.27	%

Authorized by: Laboratory Manager

Signature:



Details of testing

1. This COA has been revised from COA Number: 230426_55558_PAR15211
2. Results only apply to the items tested and to the sample(s) as received.
3. This report may not be distributed or reproduced except in full.



This COA can be verified by scanning the QR code

Sample information

Sample Name	Bubba Punch	Sample Receiving Date	21-Apr-2023
Sample ID	BUBBAPUNCH-BULK001	Receiving Temperature	21°C
Laboratory ID	PAT47303	Analysis Date	24-Apr-2023
Method Ref.	PAT-AM-019		

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	<0.010	<0.100	0.010
CBD	<0.010	<0.100	0.010
CBDA	0.062	0.620	0.010
CBDV	<0.010	<0.100	0.010
CBG	0.111	1.110	0.010
CBGA	0.909	9.090	0.010
CBN	<0.010	<0.100	0.010
D8-THC	<0.010	<0.100	0.010
D9-THC	0.323	3.230	0.010
THCA-A	30.845	308.450	0.010
THCV	<0.010	<0.100	0.010
Total THC	27.374	273.741	
Total CBD	0.054	0.544	

27.374%
Total THC

0.054%
Total CBD

Total THC = THC + (THCA*0.877), Total CBD = CBD + (CBDA*0.877)

Total THC/CBD is calculated using the formulas to take into account the loss of carboxyl group during decarboxylation step.

Authorized by: Laboratory Manager

Signature:



Details of testing

1. This COA has been revised from COA Number: 230426_55558_PAR15211
2. LOQ- Limit of quantification
3. % w/w: percent (weight of analyte/ weight of product)
4. Results only apply to the items tested and to the sample(s) as received.
5. This report may not be distributed or reproduced except in full



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***** This is end of the Certificate of Analysis *****

Date : May 9, 2023

CERTIFICATE OF ANALYSIS – GC PROFILING (MAIN TERPENES)

SAMPLE IDENTIFICATION

Internal code : 23D21-ACC01

Customer identification : BUBBAPUNCH-BULK001

Type : Plant material

Source : *Cannabis sativa*

Customer : AMANI CRAFT CANNABIS LTD

ANALYSIS

Method: Extraction of plant material with pentane, and addition of a methyl octanoate internal standard for quantitation. Application of a correction factor¹. Analysis with PC-MAT-004 - Terpenes and volatiles profiling by response factor (in French); identifications validated by GC-MS.

Analyst : Amélie Simard, Analyste

Analysis date : April 26, 2023

Checked and approved by :

Alexis St-Gelais, Ph. D., chimiste 2013-174

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.

This report is an update from the first version issued on April 26, 2023, to update the customer identification.

REFERENCE

(1) Cachet, T.; Brevard, H.; Chaintreau, A.; Demyttenaere, J.; French, L.; Gassenmeier, K.; Joulain, D.; Koenig, T.; Leijts, 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.

PHYSICOCHEMICAL DATA

Moisture content: 13.3% (method PC-MAT-024)

Anhydrous (dry) concentration is reported by taking into account the loss of mass of the plant dried at 105°C for several hours, giving results that are independent of the sample's residual moisture.

'As is' concentration stands for the directly measured concentration in the sample without correction for its moisture content.

ANALYSIS SUMMARY

Identification	Anhydrous (mg/g)	As is (mg/g)	Classe
Hexanol	0.01	0.01	Aliphatic alcohol
Hashishene	tr	tr	Monoterpene
α -Thujene	0.04	0.03	Monoterpene
α -Pinene	0.92	0.80	Monoterpene
Camphene	0.22	0.19	Monoterpene
α -Fenchene	0.01	0.01	Monoterpene
β -Pinene	1.46	1.27	Monoterpene
Sabinene	0.01	tr	Monoterpene
Myrcene	4.89	4.24	Monoterpene
α -Phellandrene	0.02	0.02	Monoterpene
α -Terpinene	0.01	0.01	Monoterpene
para-Cymene	0.01	0.01	Monoterpene
Limonene	8.56	7.42	Monoterpene
β -Phellandrene	0.04	0.03	Monoterpene
(Z)- β -Ocimene	0.03	0.02	Monoterpene
(E)- β -Ocimene	0.59	0.51	Monoterpene
γ -Terpinene	0.01	0.01	Monoterpene
cis-Sabinene hydrate	0.02	0.02	Monoterpenic alcohol
Fenchone	0.11	0.10	Monoterpenic ketone
Terpinolene	0.09	0.08	Monoterpene
trans-Sabinene hydrate	0.01	0.01	Monoterpenic alcohol
Linalool	0.62	0.54	Monoterpenic alcohol
endo-Fenchol	0.54	0.47	Monoterpenic alcohol
trans-Pinene hydrate	0.44	0.38	Monoterpenic alcohol
cis-Pinene hydrate	0.07	0.06	Monoterpenic alcohol
Camphene hydrate	0.03	0.02	Monoterpenic alcohol
Ipsdienol	0.07	0.06	Monoterpenic alcohol
Borneol	0.11	0.09	Monoterpenic alcohol
Terpinen-4-ol	0.02	0.02	Monoterpenic alcohol
para-Cymen-8-ol	tr	tr	Monoterpenic alcohol
α -Terpineol	0.47	0.41	Monoterpenic alcohol
Hexyl butyrate	0.01	tr	Aliphatic ester
Citronellol	0.02	0.01	Monoterpenic alcohol

Decanol	tr	tr	Aliphatic alcohol
α -Cubebene	0.01	0.01	Sesquiterpene
α -Ylangene	0.01	0.01	Sesquiterpene
Unknown	0.03	0.03	Sesquiterpene
Hexyl hexanoate	0.02	0.02	Aliphatic ester
β -Caryophyllene	2.72	2.36	Sesquiterpene
α -Santalene	0.01	0.01	Sesquiterpene
γ -Elemene	0.24	0.21	Sesquiterpene
<i>trans</i> - α -Bergamotene	0.28	0.25	Sesquiterpene
α -Guaiene	[0.28]	[0.25]	Sesquiterpene
α -Humulene	0.95	0.83	Sesquiterpene
allo-Aromadendrene	0.01	0.01	Sesquiterpene
(<i>E</i>)- β -Farnesene	0.09	0.08	Sesquiterpene
Unknown	0.08	0.07	Sesquiterpene
β -Selinene	0.19	0.17	Sesquiterpene
Valencene	0.01	0.01	Sesquiterpene
α -Selinene	0.20	0.17	Sesquiterpene
δ -Guaiene	0.04	0.03	Sesquiterpene
β -Bisabolene	0.09	0.08	Sesquiterpene
(3 <i>E</i> ,6 <i>E</i>)- α -Farnesene	0.05	0.05	Sesquiterpene
Spirovetiva-1(10),7(11)-diene	0.10	0.09	Sesquiterpene
Eremophila-1(10),7(11)-diene	[0.10]	[0.09]	Sesquiterpene
Selina-4(15),7(11)-diene	0.37	0.32	Sesquiterpene
Selina-4,7(11)-diene?	0.01	0.01	Sesquiterpene
Selina-3,7(11)-diene	0.58	0.50	Sesquiterpene
(<i>E</i>)- α -Bisabolene	0.78	0.68	Sesquiterpene
Germacrene B	0.50	0.43	Sesquiterpene
Eudesma-5,7(11)-diene	0.02	0.01	Sesquiterpene
(<i>E</i>)-Nerolidol	0.02	0.02	Sesquiterpenic alcohol
Caryophyllene oxide	0.05	0.05	Sesquiterpenic ether
Guaiol	0.61	0.53	Sesquiterpenic alcohol
Humulene epoxide II	0.05	0.04	Sesquiterpenic ether
10-epi- γ -Eudesmol	0.57	0.49	Sesquiterpenic alcohol
Selin-6-en-4 α -ol isomer	0.02	0.02	Sesquiterpenic alcohol
Selin-6-en-4 α -ol	0.02	0.01	Sesquiterpenic alcohol
γ -Eudesmol	0.10	0.09	Sesquiterpenic alcohol
β -Eudesmol	0.30	0.26	Sesquiterpenic alcohol
α -Eudesmol	0.34	0.30	Sesquiterpenic alcohol
Bulnesol	0.60	0.52	Sesquiterpenic alcohol
(3 <i>Z</i>)-Caryophylla-3,8(13)-dien-5 β -ol	0.02	0.02	Sesquiterpenic alcohol
α -Bisabolol	0.72	0.62	Sesquiterpenic alcohol
Juniper camphor	0.04	0.04	Sesquiterpenic alcohol
Aromadendrane-4,10-diol	0.02	0.02	Sesquiterpenic alcohol
(2 <i>E</i> ,6 <i>E</i>)-Farnesol	0.01	0.01	Sesquiterpenic alcohol
Cryptomeridiol	0.07	0.06	Sesquiterpenic alcohol
meta-Camphorene	0.01	0.01	Diterpene
Phytol	0.14	0.12	Diterpenic alcohol
Consolidated total	30.56 mg/g	26.51 mg/g	

*: Individual compounds concentration could not be found due to overlapping coelutions on columns considered
[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total
tr: < 0.01 mg/g