

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower

Date Reported: 20-Dec-2023

Lot No: 2023-07-25_PCGC4

SUMMARY

Potency	Total THC (mg/g)	Total CBD (mg/g)	Total Cannabinoids* (mg/g)
	323.846	1.524	393.336
Heavy Metals	Within Limit		
Toxicology	Within Limit		
Pesticides	Within Limit		
Microbials	Within Limit		
Foreign Matter	Within Limit		
Moisture Content	Moisture (%)		
	12.72		


Legend:

LOQ Limit of Quantification
 <LOQ Below Limit of Quantification
 ppm Parts Per Million ($\mu\text{g/g}$ for dry weight)
 ppb Parts Per Billion (ng/g for dry weight)
 ND Not Detected
 ¥ indicates results outside of limit.
 † ISO 17025 accredited method

 Results in **RED** are outside of limit

 Results in **GREEN** are within limit

This document shall not be reproduced without written approval of Innovate Phytoceuticals Inc.

 Authorized by: 
 Lab Manager

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower

Date Reported: 20-Dec-2023

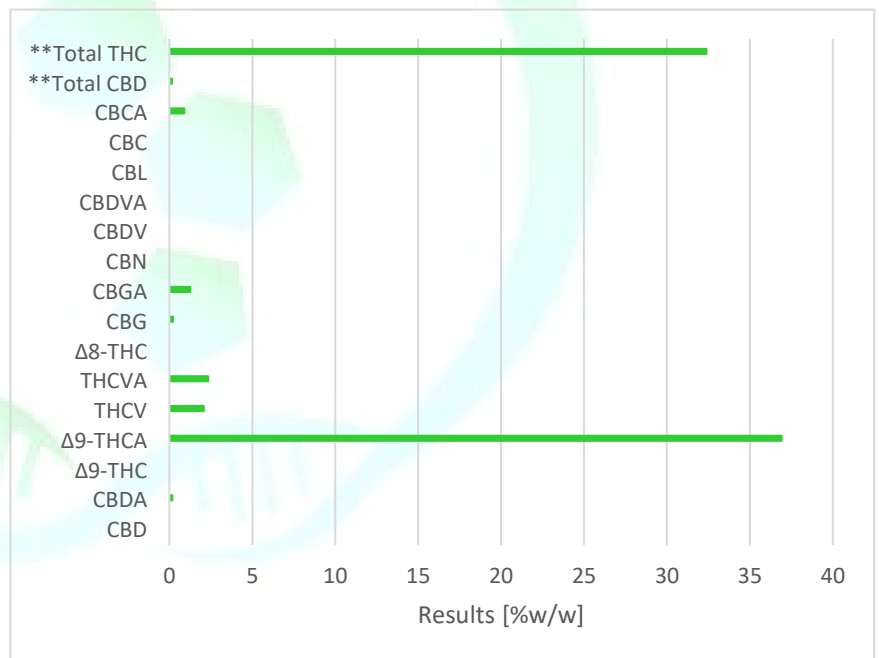

Lot No: 2023-07-25_PCGC4

POTENCY ANALYSIS

Analyte	Results [mg/g]	LOQ [mg/g]	Results [%w/w]
CBD		0.0001	
CBDA	1.738	0.0001	0.174
Δ^9 -THC		0.0001	
Δ^9 -THCA	369.266	0.0001	36.927
THCV	20.661	0.0001	2.066
THCVA	23.506	0.0001	2.351
Δ^8 -THC		0.0001	
CBG	2.256	0.0001	0.226
CBGA	12.629	0.0001	1.263
CBN		0.0001	
CBDV		0.0001	
CBDVA		0.0001	
CBL		0.0001	
CBC		0.0001	
CBCA	8.913	0.0001	0.891
**Total CBD	1.524		0.152
**Total THC	323.846		32.385
* Total Cannabinoids	393.336		39.334

* based on available compounds detected

 **Calculated as: Total
 $CBD = CBD + (0.877)CBDA$ / Total THC =
 $THC + (0.877)THCA$

 Modified UNODC method based on
 chromatography principles of USP<621>

 Authorized by: 
 Lab Manager

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower


Date Reported: 20-Dec-2023

Lot No: 2023-07-25_PCGC4

HEAVY METALS ANALYSIS

Analyte	Results [ppb]	LOQ [ppb]	Limits [ppb]
Arsenic	8.6348	1	2000
Cadmium	14.3849	1	2000
Mercury	<LOQ	1	1000
Lead	32.3658	1	5000

Adopted USP<232> and <233> methods.

 Authorized by: 

Lab Manager

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower

Date Reported: 20-Dec-2023


Lot No: 2023-07-25_PCGC4

TOXICOLOGY ANALYSIS

Analyte	Results [ppb]	LOQ [ppb]	Limits [ppb]
Aflatoxin B1	ND	0.3	<5
Aflatoxin B2	ND	1	
Aflatoxin G1	ND	1	
Aflatoxin G2	ND	1	
Sum B1,B2,G1,G2	ND		<20

USP limits for Aflatoxins: Sum of Aflatoxins B1, B2, G1, G2 must be less than 20ppb.

Adopted method based on USP<561>

 Authorized by: 

Lab Manager

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower

Date Reported: 20-Dec-2023

Lot No: 2023-07-25_PCGC4


PESTICIDE ANALYSIS

Analyte	LOQ [ppb]	Results [ppb]	Analyte	LOQ [ppb]	Results [ppb]	Analyte	LOQ [ppb]	Results [ppb]
Abamectin	5	ND	Endosulfan sulfate**	25	ND	Paclbutrazol	5	ND
Acephate	5	ND	Endosulfan-alpha**	50	ND	Parathion-methyl**	25	ND
Acequinocyl	5	ND	Endosulfan-beta**	25	ND	Permethrin	5	ND
Acetamiprid	5	ND	Ethoprophos	5	ND	Phenothrin	5	ND
Aldicarb	5	ND	Etofenprox	5	ND	Phosmet	5	ND
Allethrin	5	ND	Etoxazole	5	ND	Piperonyl butoxide	5	ND
Azadirachtin	5	ND	Etridiazole**	5	ND	Pirimicarb	5	ND
Azoxystrobin	5	ND	Fenoxycarb	5	ND	Prallethrin	5	ND
Benzovindiflupyr	5	ND	Fenpyroximate	5	ND	Propiconazole	5	ND
Bifenazate	5	ND	Fensulfothion	5	ND	Propoxur	5	ND
Bifenthrin	5	ND	Fenthion	5	ND	Pyraclostrobin	5	ND
Boscalid	5	ND	Fenvalerate	5	ND	Pyrethrins	5	ND
Buprofezin	5	ND	Fipronil	5	ND	Pyridaben	5	ND
Carbaryl	5	ND	Flonicamid	5	ND	Quintozene**	5	ND
Carbofuran	5	ND	Fludioxonil	5	ND	Resmethrin	5	ND
Chlorantraniliprole	5	ND	Fluopyram	5	ND	Spinetoram	5	ND
Chlorphenapyr**	25	ND	Hexythiazox	5	ND	Spinosad	5	ND
Chlorpyrifos	5	ND	Imazalil	5	ND	Spirodiclofen	5	ND
Clofentezine	5	ND	Imidacloprid	5	ND	Spiromesifen	5	ND
Clothianidin	5	ND	Iprodione	5	ND	Spirotetramat	5	ND
Coumaphos	5	ND	Kinoprene**	25	ND	Spiroxamine	5	ND
Cyantraniliprole	5	ND	Kresoxim-methyl	5	ND	Tebuconazole	5	ND
Cyfluthrin**	100	ND	Malathion	5	ND	Tebufenozide	5	ND
Cypermethrin**	100	ND	Metalaxyl	5	ND	Teflubenzuron	5	ND
Cyprodinil	5	ND	Methiocarb	5	ND	Tetrachlorvinphos	5	ND
Daminozide	5	ND	Methomyl	5	ND	Tetramethrin	5	ND
Deltamethrin	5	ND	Methoprene	5	ND	Thiacloprid	5	ND
Diazinon	5	ND	Mevinphos	5	ND	Thiamethoxam	5	ND
Dichlorvos	5	ND	MGK-264**	25	ND	Thiophanate-methyl	5	ND
Dimethoate	5	ND	Myclobutanil	5	ND	Trifloxystrobin	5	ND
Dimethomorph	5	ND	Naled	5	ND			
Dinotefuran	5	ND	Novaluron	5	ND			
Dodemorph	5	ND	Oxamyl	5	ND			

**Detectable only by GC-MS

Please see the appendix for Health Canada pesticide reporting limits

Adopted method based on USP<561>

 Authorized by: 
 Lab Manager

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower


Date Reported: 20-Dec-2023

Lot No: 2023-07-25_PCGC4

MICROBIAL ANALYSIS

Microbial Assays	Results [CFU/g]	Limits [CFU/g or, CFU/ml]
Total Aerobic Plate Count	<100	<500,000
Total Yeast and Mold Count	<1,640	<50,000
Bile Tolerant Gram (-) Bacteria	<10	<10,000
<i>E. coli</i>	Absent	Absence in 1g/1ml
<i>Salmonella spp.</i>	Absent	Absence in 25g/25ml
<i>S. aureus</i>	Absent	Absence in 1g/1ml
<i>P. aeruginosa</i>	Absent	Absence in 1g/1ml

Adopted method based on Ph. EUR.<2.6.12><2.6.31>

 Authorized by: 
 Lab Manager

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower


Date Reported: 20-Dec-2023

Lot No: 2023-07-25_PCGC4

FOREIGN MATTER ANALYSIS

Parameters	Results	Limits
Stalks	0	Report
Insects/parts of insects	0	Absent
extraneous substances	0	Absent
Living infestations	0	Absent

Adopted method based on AOAC 970.74

 Authorized by: 
 Lab Manager

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower


Date Reported: 20-Dec-2023

Lot No: 2023-07-25_PCGC4

MOISTURE ANALYSIS

Test	Results [%]
Moisture Content	12.72
In house method	



Authorized by: 
Lab Manager

Client: 1239254 BC Ltd. dba PureFire Company

Order-Sample No: 00363-02

Sample Name: Peyote Kush Cake

Date Received: 11-Dec-2023

Sample Matrix: Dried Flower


Date Reported: 20-Dec-2023

Lot No: 2023-07-25_PCGC4

Pesticides Reporting Limits (Health Canada)

Analyte	Fresh [ppb]	Dry [ppb]	Oil [ppb]	Analyte	Fresh [ppb]	Dry [ppb]	Oil [ppb]
Abamectin	250	100	250	Hexythiazox	10	10	N/A
Acephate	50	20	50	Imazalil	10	50	10
Acequinocyl	50	30	N/A	Imidacloprid	10	20	10
Acetamiprid	50	100	50	Iprodione	500	1000	500
Aldicarb	500	1000	500	Kinoprene**	50	500	1250
Allethrin	100	200	100	Kresoxim-methyl	10	20	150
Azadirachtin	500	1000	500	Malathion	10	20	10
Azoxystrobin	10	20	10	Metalaxyl	10	20	10
Benzovindiflupyr	10	20	10	Methiocarb	10	20	10
Bifenazate	50	20	10	Methomyl	50	50	25
Bifenthrin	100	1000	N/A	Methoprene	1000	2000	N/A
Boscalid	10	20	10	Mevinphos	25	50	25
Buprofezin	10	20	N/A	MGK-264**	50	50	N/A
Carbaryl	25	50	25	Myclobutanil	10	20	10
Carbofuran	10	20	10	Naled	200	100	N/A
Chlorantraniliprole	10	20	N/A	Novaluron	25	50	25
Chlorphenapyr**	100	50	1500	Oxamyl	1500	3000	1500
Chlorpyrifos	10	40	500	Paclobutrazol	10	20	10
Clofentezine	10	20	10	Parathion-methyl**	30	50	N/A
Clothianidin	25	50	25	Permethrin	500	500	N/A
Coumaphos	10	20	10	Phenothrin	25	50	N/A
Cyantraniliprole	10	20	10	Phosmet	10	20	N/A
Cyfluthrin**	1000	200	N/A	Piperonyl butoxide	250	200	1250
Cypermethrin**	1000	300	N/A	Pirimicarb	10	20	10
Cyprodinil	250	250	10	Prallethrin	50	50	N/A
Daminozide	50	100	N/A	Propiconazole	10	100	N/A
Deltamethrin	1000	500	N/A	Propoxur	10	20	10
Diazinon	10	20	N/A	Pyraclostrobin	10	20	10
Dichlorvos	50	100	50	Pyrethrins	25	50	N/A
Dimethoate	10	20	10	Pyridaben	25	50	20
Dimethomorph	50	50	N/A	Quintozene**	10	20	N/A
Dinotefuran	50	100	50	Resmethrin	20	100	50
Dodemorph	50	50	N/A	Spinetoram	10	20	10
Endosulfan sulfate**	500	50	2500	Spinosad	10	100	10
Endosulfan-alpha**	100	200	2500	Spirodiclofen	250	250	N/A
Endosulfan-beta**	500	50	2500	Spiromesifen	50	3000	N/A
Ethoprophos	10	20	10	Spirotetramat	100	20	10
Etofenprox	10	50	N/A	Spiroxamine	10	100	N/A
Etoazole	10	20	N/A	Tebuconazole	10	50	10
Etridiazole**	10	30	150	Tebufenozide	10	20	10
Fenoxycarb	10	20	10	Teflubenzuron	25	50	25
Fenpyroximate	20	20	N/A	Tetrachlorvinphos	10	20	10
Fensulfothion	10	20	10	Tetramethrin	50	100	N/A
Fenthion	10	20	10	Thiacloprid	10	20	10
Fenvalerate	100	100	N/A	Thiamethoxam	10	20	10
Fipronil	10	60	10	Thiophanate-methyl	30	50	N/A
Flonicamid	25	50	25	Trifloxystrobin	10	20	10
Fludioxonil	10	20	10				
Fluopyram	10	20	10				

**Detectable only by GC-MS

 Authorized by: 
 Lab Manager

Date : 2023-12-21

CERTIFICATE OF ANALYSIS - GC PROFILING (MAIN TERPENES)

SAMPLE IDENTIFICATION

Internal code : 23L14-PUF02

Customer Identification : 2023-07-25_PCGC4 Peyote Kush cake

Type : Plant material

Source : *Cannabis sativa*

Customer : Pure Fire Company

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.

PHYSICOCHEMICAL DATA

Method : PC-MAT-024 - Vegetal material moisture content determination

Moisture content : 14.77 % m/m

Analyst : Cassandra Baker

Date : 2023-12-15

GAS CHROMATOGRAPHIC ANALYSIS

Method : PC-MAT-004 - Terpenes and volatiles profiling by response factor

Results : See analysis summary (table)

Analyst : Corine Lormel, Ph. D.

Date : 2023-12-19

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
Hexanol	0.23	0.19	Aliphatic alcohol
Hashishene	tr	tr	Monoterpene
α -Thujene	0.02	0.01	Monoterpene
α -Pinene	0.88	0.75	Monoterpene
α -Fenchene	0.01	0.01	Monoterpene
Camphene	0.28	0.24	Monoterpene
β -Pinene	1.88	1.60	Monoterpene
Sabinene	0.01	0.01	Monoterpene
Myrcene	15.18	12.94	Monoterpene
α -Phellandrene	0.01	0.01	Monoterpene
Δ^3 -Carene	0.01	0.01	Monoterpene
α -Terpinene	0.01	0.01	Monoterpene
<i>para</i> -Cymene	0.01	0.01	Monoterpene
Limonene	12.09	10.30	Monoterpene
β -Phellandrene	0.11	0.09	Monoterpene
(Z)- β -Ocimene	0.06	0.05	Monoterpene
(E)- β -Ocimene	1.77	1.51	Monoterpene
γ -Terpinene	0.02	0.02	Monoterpene

<i>cis</i> -Sabinene hydrate	0.04	0.03	Monoterpenic alcohol
Octanol	0.13	0.11	Aliphatic alcohol
Fenchone	0.19	0.16	Monoterpenic ketone
Terpinolene	0.18	0.16	Monoterpene
<i>trans</i> -Sabinene hydrate	0.01	0.00	Monoterpenic alcohol
Linalool	5.03	4.28	Monoterpenic alcohol
endo-Fenchol	1.01	0.86	Monoterpenic alcohol
<i>trans</i> -Pinene hydrate	0.76	0.65	Monoterpenic alcohol
<i>cis</i> -Pinene hydrate	0.16	0.14	Monoterpenic alcohol
Camphene hydrate	0.05	0.04	Monoterpenic alcohol
Ipsdienol	0.19	0.16	Monoterpenic alcohol
Borneol	0.27	0.23	Monoterpenic alcohol
Terpinen-4-ol	0.03	0.02	Monoterpenic alcohol
α -Terpineol	0.99	0.84	Monoterpenic alcohol
Hexyl butyrate	0.36	0.31	Aliphatic ester
Citronellol	0.01	0.01	Monoterpenic alcohol
(4Z)-Decenol	0.01	0.01	Aliphatic alcohol
Geraniol	0.05	0.04	Monoterpenic alcohol
Decanol	0.02	0.02	Aliphatic alcohol
α -Cubebene	0.01	0.01	Sesquiterpene
α -Ylangene	0.16	0.13	Sesquiterpene
Unknown	0.07	0.06	Sesquiterpene
Hexyl hexanoate	1.88	1.61	Aliphatic ester
β -Caryophyllene	3.76	3.20	Sesquiterpene
α -Santalene	0.02	0.01	Sesquiterpene
γ -Elemene	0.53	0.45	Sesquiterpene
α -Guaiene	[1.07]	[0.91]	Sesquiterpene
<i>trans</i> - α -Bergamotene	[1.07]	[0.91]	Sesquiterpene
α -Humulene	1.48	1.26	Sesquiterpene
allo-Aromadendrene	0.04	0.04	Sesquiterpene
(E)- β -Farnesene	0.52	0.45	Sesquiterpene
Unknown	0.15	0.13	Sesquiterpene
β -Selinene	0.50	0.43	Sesquiterpene
α -Selinene	0.62	0.53	Sesquiterpene
δ -Guaiene	1.54	1.31	Sesquiterpene
β -Bisabolene	0.25	0.21	Sesquiterpene
(3E,6E)- α -Farnesene	0.11	0.09	Sesquiterpene
Spirovetiva-1(10),7(11)-diene	0.16	0.13	Sesquiterpene
Eremophila-1(10),7(11)-diene	0.19	0.16	Sesquiterpene
Selina-4(15),7(11)-diene	0.88	0.75	Sesquiterpene
Selina-4,7(11)-diene?	0.48	0.40	Sesquiterpene
Selina-3,7(11)-diene	1.19	1.01	Sesquiterpene
(E)- α -Bisabolene	0.89	0.76	Sesquiterpene
Germacrene B	1.44	1.23	Sesquiterpene
Eudesma-5,7(11)-diene	0.12	0.10	Sesquiterpene

(E)-Nerolidol	0.31	0.27	Sesquiterpenic alcohol
Caryophyllene oxide	0.07	0.06	Sesquiterpenic ether
Humulene epoxide II	0.03	0.03	Sesquiterpenic ether
10-epi- γ -Eudesmol	0.01	0.01	Sesquiterpenic alcohol
Selin-6-en-4 α -ol isomer	0.06	0.05	Sesquiterpenic alcohol
Selin-6-en-4 α -ol	0.05	0.04	Sesquiterpenic alcohol
γ -Eudesmol	0.03	0.02	Sesquiterpenic alcohol
β -Eudesmol	0.02	0.02	Sesquiterpenic alcohol
α -Eudesmol	0.18	0.15	Sesquiterpenic alcohol
Bulnesol	0.01	0.00	Sesquiterpenic alcohol
(3Z)-Caryophylla-3,8(13)-dien-5 β -ol	0.03	0.03	Sesquiterpenic alcohol
α -Bisabolol	0.78	0.67	Sesquiterpenic alcohol
Juniper camphor	0.13	0.11	Sesquiterpenic alcohol
Aromadendrane-4,10-diol	0.03	0.02	Sesquiterpenic alcohol
(2E,6E)-Farnesol	0.12	0.10	Sesquiterpenic alcohol
Cryptomeridiol	0.01	0.00	Sesquiterpenic alcohol
<i>meta</i> -Camphorene	0.02	0.01	Diterpene
Phytol	0.17	0.15	Diterpenic alcohol
Consolidated total	62.17	53.00	

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.