

Platinum Owl Hash (Hawaiian Runtz)

Sample ID: SA-231024-28900
 Batch: #POHHC1023
 Type: Finished Product - Inhalable
 Matrix: Concentrate - Hash
 Unit Mass (g):

Received: 10/27/2023
 Completed: 11/08/2023

Client
 Proendo Wholesale Ireland
 Unit 4 1st Floor, 84 Strand St
 Skerries, Dublin K34 VW93
 Ireland



Summary

Test
 Cannabinoids
 Terpenes

Date Tested
 11/08/2023
 11/02/2023

Status
 Tested
 Tested

0.0543 % Total Δ9-THC	24.5 % (6aR,9R,10aR)-HHC	49.4 % Total Cannabinoids	Not Tested Moisture Content	Not Tested Foreign Matter	Yes Internal Standard Normalization
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Cannabinoids by HPLC-PDA and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
CBC	0.0095	0.0284	ND	ND
CBCA	0.0181	0.0543	0.199	1.99
CBCV	0.006	0.018	ND	ND
CBD	0.0081	0.0242	0.135	1.35
CBDa	0.0043	0.013	0.0288	0.288
CBDP	0.0067	0.02	ND	ND
CBDV	0.0061	0.0182	ND	ND
CBDVA	0.0021	0.0063	ND	ND
CBG	0.0057	0.0172	1.72	17.2
CBGA	0.0049	0.0147	14.4	144
CBL	0.0112	0.0335	ND	ND
CBLA	0.0124	0.0371	ND	ND
CBN	0.0056	0.0169	0.100	1.00
CBNA	0.006	0.0181	ND	ND
CBT	0.018	0.054	0.0570	0.570
Δ4,8-iso-THC	0.0067	0.02	ND	ND
Δ8-iso-THC	0.0067	0.02	ND	ND
Δ8-THC	0.0104	0.0312	ND	ND
Δ8-THCP	0.0067	0.02	ND	ND
Δ9-THC	0.0076	0.0227	0.0543	0.543
Δ9-THCA	0.0084	0.0251	<LOQ	<LOQ
Δ9-THCP	0.0067	0.02	ND	ND
Δ9-THCV	0.0069	0.0206	ND	ND
Δ9-THCVA	0.0062	0.0186	ND	ND
(6aR,9R,10aR)-HHC	0.0067	0.02	24.5	245
(6aR,9S,10aR)-HHC	0.0067	0.02	7.12	71.2
9R-HHCP	0.0067	0.02	0.730	7.30
9S-HHCP	0.0067	0.02	0.349	3.49
Total Δ9-THC			0.0543	0.543
Total			49.4	49.4

Generated By: Ryan Bellone
 CCO

Date: 11/08/2023





KCA Laboratories
232 North Plaza Drive
Nicholasville, KY 40356

+1-833-KCA-LABS
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Certificate of Analysis

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ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ 9-THC = Δ 9-THCA * 0.877 + Δ 9-THC; Total CBD = CBDA * 0.877 + CBD;

Generated By: Ryan Bellone
CCO
Date: 11/08/2023

Tested By: Scott Caudill
Laboratory Manager
Date: 11/08/2023



ISO/IEC 17025:2017 Accredited
Accreditation #108651



This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 17025:2017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories. KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories. KCA Laboratories can provide measurement uncertainty upon request.

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Terpenes by GC-MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Analyte	LOD (%)	LOQ (%)	Result (%)
α -Bisabolol	0.002	0.01	0.218	Limonene	0.002	0.01	0.063
(+)-Borneol	0.002	0.01	<LOQ	Linalool	0.002	0.01	0.0584
Camphene	0.002	0.01	<LOQ	β -myrcene	0.002	0.01	0.324
Camphor	0.004	0.02	ND	Nerol	0.002	0.01	ND
3-Carene	0.002	0.01	ND	cis-Nerolidol	0.002	0.01	ND
β -Caryophyllene	0.002	0.01	0.139	trans-Nerolidol	0.002	0.01	<LOQ
Caryophyllene Oxide	0.002	0.01	0.0355	Ocimene	0.002	0.01	0.0188
α -Cedrene	0.002	0.01	ND	α -Phellandrene	0.002	0.01	<LOQ
Cedrol	0.002	0.01	ND	α -Pinene	0.002	0.01	0.0976
Eucalyptol	0.002	0.01	ND	β -Pinene	0.002	0.01	0.0429
Fenchone	0.004	0.02	ND	Pulegone	0.002	0.01	ND
Fenchyl Alcohol	0.002	0.01	0.0126	Sabinene	0.002	0.01	ND
Geraniol	0.002	0.01	0.0139	Sabinene Hydrate	0.002	0.01	ND
Geranyl Acetate	0.002	0.01	ND	α -Terpinene	0.002	0.01	ND
Guaiol	0.002	0.01	0.0775	γ -Terpinene	0.002	0.01	ND
Hexahydrothymol	0.002	0.01	ND	α -Terpineol	0.001	0.005	0.0111
α -Humulene	0.002	0.01	0.053	γ -Terpineol	0.001	0.005	<LOQ
Isoborneol	0.002	0.01	ND	Terpinolene	0.002	0.01	<LOQ
Isopulegol	0.002	0.01	ND	Valencene	0.002	0.01	ND
				Total Terpenes (%)			1.21

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Fruity



Earth



Tropical



Sweet



Floral



Generated By: Ryan Bellone
 CCO
 Date: 11/08/2023



Tested By: Jasper van Heemst
 Principal Scientist
 Date: 11/02/2023



HHC Hash (#POHHC1023)

Sample ID: SA-231024-28904
 Batch: #POHHC1023
 Type: Finished Product - Inhalable
 Matrix: Concentrate - Hash
 Unit Mass (g):

Received: 10/28/2023
 Completed: 11/04/2023

Client

Proendo Wholesale Ireland
 Unit 4 1st Floor, 84 Strand St
 Skerries, Dublin K34 VW93
 Ireland



Summary

Test
 Heavy Metals
 Mycotoxins
 Pesticides
 Residual Solvents

Date Tested
 11/04/2023
 10/31/2023
 10/31/2023
 11/01/2023

Status
 Failed
 Passed
 Passed
 Passed

Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Yes
Total Δ9-THC	Total CBD	Total Cannabinoids	Moisture Content	Foreign Matter	Internal Standard Normalization

Heavy Metals by ICP-MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Arsenic	2	20	<RL	P
Cadmium	1	20	<RL	P
Lead	2	20	525	F
Mercury	12	50	ND	P

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Due to the lack of specialized testing facilities within Ireland and the EU, we ensure the quality of our products through accredited, ISO/IEC 17025-certified third-party laboratories in the USA. EU guidelines on heavy metal testing in smokable hemp products are unclear. For full transparency, our products test at 0.5 ppm for lead, aligning with California's stringent regulations and well below the allowance in other jurisdictions such as Washington and Colorado. We commit to high standards and encourage you to make informed decisions with this knowledge.



Generated By: Ryan Bellone
 CCO
 Date: 11/04/2023



Tested By: Chris Farman
 Scientist
 Date: 11/04/2023



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Pesticides by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Abamectin	30	100	ND	P	Hexythiazox	30	100	ND	P
Acephate	30	100	ND	P	Imazalil	30	100	ND	P
Acequinocyl	30	100	ND	P	Imidacloprid	30	100	ND	P
Acetamiprid	30	100	ND	P	Kresoxim methyl	30	100	ND	P
Aldicarb	30	100	ND	P	Malathion	30	100	ND	P
Azoxystrobin	30	100	ND	P	Metalaxyl	30	100	ND	P
Bifenazate	30	100	ND	P	Methiocarb	30	100	ND	P
Bifenthrin	30	100	ND	P	Methomyl	30	100	ND	P
Boscalid	30	100	ND	P	Mevinphos	30	100	ND	P
Carbaryl	30	100	ND	P	Myclobutanil	30	100	ND	P
Carbofuran	30	100	ND	P	Naled	30	100	ND	P
Chloranthraniliprole	30	100	ND	P	Oxamyl	30	100	ND	P
Chlorfenapyr	30	100	ND	P	Paclobutrazol	30	100	ND	P
Chlorpyrifos	30	100	ND	P	Permethrin	30	100	ND	P
Clofentezine	30	100	ND	P	Phosmet	30	100	ND	P
Coumaphos	30	100	ND	P	Piperonyl Butoxide	30	100	ND	P
Cypermethrin	30	100	ND	P	Prallethrin	30	100	ND	P
Daminozide	30	100	ND	P	Propiconazole	30	100	ND	P
Diazinon	30	100	ND	P	Propoxur	30	100	ND	P
Dichlorvos	30	100	ND	P	Pyrethrins	30	100	ND	P
Dimethoate	30	100	ND	P	Pyridaben	30	100	ND	P
Dimethomorph	30	100	ND	P	Spinetoram	30	100	ND	P
Ethoprophos	30	100	ND	P	Spinosad	30	100	ND	P
Etofenprox	30	100	ND	P	Spiromesifen	30	100	ND	P
Etiozazole	30	100	ND	P	Spirotetramat	30	100	ND	P
Fenhexamid	30	100	ND	P	Spiroxamine	30	100	ND	P
Fenoxycarb	30	100	ND	P	Tebuconazole	30	100	ND	P
Fenpyroximate	30	100	ND	P	Thiacloprid	30	100	ND	P
Fipronil	30	100	ND	P	Thiamethoxam	30	100	ND	P
Flonicamid	30	100	ND	P	Trifloxystrobin	30	100	ND	P
Fludioxonil	30	100	ND	P					

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Generated By: Ryan Bellone
 CCO
 Date: 11/04/2023



Tested By: Jasper van Heemst
 Principal Scientist
 Date: 10/31/2023





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232 North Plaza Drive
Nicholasville, KY 40356

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HHC Hash (#POHHC1023)

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Mycotoxins by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
B1	1	5	ND	P
B2	1	5	ND	P
G1	1	5	ND	P
G2	1	5	ND	P
Ochratoxin A	1	5	ND	P

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Generated By: Ryan Bellone
CCO
Date: 11/04/2023

Tested By: Jasper van Heemst
Principal Scientist
Date: 10/31/2023



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Residual Solvents by HS-GC-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F
Acetone	167	500	ND	P	Ethylene Oxide	0.5	1	ND	P
Acetonitrile	14	41	ND	P	Heptane	167	500	ND	P
Benzene	0.5	1	ND	P	n-Hexane	10	29	ND	P
Butane	167	500	ND	P	Isobutane	167	500	ND	P
1-Butanol	167	500	ND	P	Isopropyl Acetate	167	500	ND	P
2-Butanol	167	500	ND	P	Isopropyl Alcohol	167	500	ND	P
2-Butanone	167	500	ND	P	Isopropylbenzene	167	500	ND	P
Chloroform	2	6	ND	P	Methanol	100	300	ND	P
Cyclohexane	129	388	ND	P	2-Methylbutane	10	29	ND	P
1,2-Dichloroethane	0.5	1	ND	P	Methylene Chloride	20	60	ND	P
1,2-Dimethoxyethane	4	10	ND	P	2-Methylpentane	10	29	ND	P
Dimethyl Sulfoxide	167	500	ND	P	3-Methylpentane	10	29	ND	P
N,N-Dimethylacetamide	37	109	ND	P	n-Pentane	167	500	ND	P
2,2-Dimethylbutane	10	29	ND	P	1-Pentanol	167	500	ND	P
2,3-Dimethylbutane	10	29	ND	P	n-Propane	167	500	ND	P
N,N-Dimethylformamide	30	88	ND	P	1-Propanol	167	500	ND	P
2,2-Dimethylpropane	167	500	ND	P	Pyridine	7	20	ND	P
1,4-Dioxane	13	38	ND	P	Tetrahydrofuran	24	72	ND	P
Ethanol	167	500	ND	P	Toluene	30	89	ND	P
2-Ethoxyethanol	6	16	ND	P	Trichloroethylene	3	8	ND	P
Ethyl Acetate	167	500	ND	P	Xylenes (o-, m-, and p-)	73	217	ND	P
Ethyl Ether	167	500	ND	P					
Ethylbenzene	3	7	ND	P					

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Generated By: Ryan Bellone
 CCO
 Date: 11/04/2023



Tested By: Kelsey Rogers
 Scientist
 Date: 11/01/2023



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Reporting Limit Appendix

Heavy Metals - Colorado CDPHE

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Arsenic	1500	Lead	500
Cadmium	500	Mercury	1500

Residual Solvents - USP 467

Analyte	Limit (ppm)	Analyte	Limit (ppm)
Acetone	5000	Ethylene Oxide	1
Acetonitrile	410	Heptane	5000
Benzene	2	n-Hexane	290
Butane	5000	Isobutane	5000
1-Butanol	5000	Isopropyl Acetate	5000
2-Butanol	5000	Isopropyl Alcohol	5000
2-Butanone	5000	Isopropylbenzene	5000
Chloroform	60	Methanol	3000
Cyclohexane	3880	2-Methylbutane	290
1,2-Dichloroethane	5	Methylene Chloride	600
1,2-Dimethoxyethane	100	2-Methylpentane	290
Dimethyl Sulfoxide	5000	3-Methylpentane	290
N,N-Dimethylacetamide	1090	n-Pentane	5000
2,2-Dimethylbutane	290	1-Pentanol	5000
2,3-Dimethylbutane	290	n-Propane	5000
N,N-Dimethylformamide	880	1-Propanol	5000
2,2-Dimethylpropane	5000	Pyridine	200
1,4-Dioxane	380	Tetrahydrofuran	720
Ethanol	5000	Toluene	890
2-Ethoxyethanol	160	Trichloroethylene	80
Ethyl Acetate	5000	Xylenes (o-, m-, and p-)	2170
Ethyl Ether	5000		
Ethylbenzene	70		

Pesticides - CA DCC

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Carbaryl	500	Myclobutanil	9000
Carbofuran	30	Naled	500
Chloranthraniliprole	40000	Oxamyl	200
Chlorfenapyr	30	Paclobutrazol	30
Chlorpyrifos	30	Permethrin	20000
Clofentezine	500	Phosmet	200
Coumaphos	30	Piperonyl Butoxide	8000
Cypermethrin	1000	Prallethrin	400
Daminozide	30	Propiconazole	20000
Diazinon	200	Propoxur	30
Dichlorvos	30	Pyrethrins	1000
Dimethoate	30	Pyridaben	3000
Dimethomorph	20000	Spinetoram	3000
Ethoprophos	30	Spinosad	3000
Etofenprox	30	Spiromesifen	12000
Etoazole	1500	Spirotetramat	13000
Fenhexamid	10000	Spiroxamine	30
Fenoxycarb	30	Tebuconazole	2000
Fenpyroximate	2000	Thiacloprid	30
Fipronil	30	Thiamethoxam	4500
Fonicamid	2000	Trifloxystrobin	30000
Fludioxonil	30000		

Mycotoxins - Colorado CDPHE

Analyte	Limit (ppm)	Analyte	Limit (ppm)
B1	5	B2	5
G1	5	G2	5
Ochratoxin A	5		

Pesticides - CA DCC

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Abamectin	300	Hexythiazox	2000
Acephate	5000	Imazalil	30
Acequinocyl	4000	Imidacloprid	3000
Acetamiprid	5000	Kresoxim methyl	1000
Aldicarb	30	Malathion	5000
Azoxystrobin	40000	Metalaxyl	15000
Bifenazate	5000	Methiocarb	30
Bifenthrin	500	Methomyl	100
Boscalid	10000	Mevinphos	30

