hhc

Sample ID: SA-231012-28285 Batch: hc8-hhc-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

Received: 10/17/2023 Completed: 10/27/2023





Summary

Test
Cannabinoids
Heavy Metals
Microbials
Mycotoxins
Pesticides
Residual Solvents

Date Tested 10/27/2023 10/20/2023 10/20/2023 10/19/2023 10/19/2023 10/19/2023 Status Tested Passed Passed Passed Passed Passed

ND Total Δ9-THC **62.1 %** (6aR,9R,10aR)-HHC **95.6** %
Total Cannabinoids

Not Tested

Moisture Content

Not TestedForeign Matter

Internal Standard Normalization

Yes

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	ND	ND
CBCV	0.006	0.018	ND	ND
CBD	0.0081	0.0242	ND	ND
CBDA	0.0043	0.013	ND	ND
CBDV	0.0061	0.0182	ND	ND
CBDVA	0.0021	0.0063	ND	ND
CBG	0.0057	0.0172	ND	ND
CBGA	0.0049	0.0147	ND	ND
CBL	0.0112	0.0335	ND	ND
CBLA	0.0124	0.0371	ND	ND
CBN	0.0056	0.0169	ND	ND
CBNA	0.006	0.0181	ND	ND
CBT	0.018	0.054	ND	ND
Δ8-ΤΗС	0.0104	0.0312	ND	ND
Δ9-ΤΗС	0.0076	0.0227	ND	ND
Δ9-ΤΗCΑ	0.0084	0.0251	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	62.1	621
(6aR,9S,10aR)-HHC	0.0067	0.02	33.5	335
Total Δ9-THC			ND	ND
Total			95.6	956

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;

Generated By: Ryan Bellone CCO

Date: 10/27/2023

Tested By: Scott Caudill Laboratory Manager Date: 10/27/2023

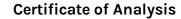




ISO/IEC 17025:2017 Accredited
Accreditation #108651



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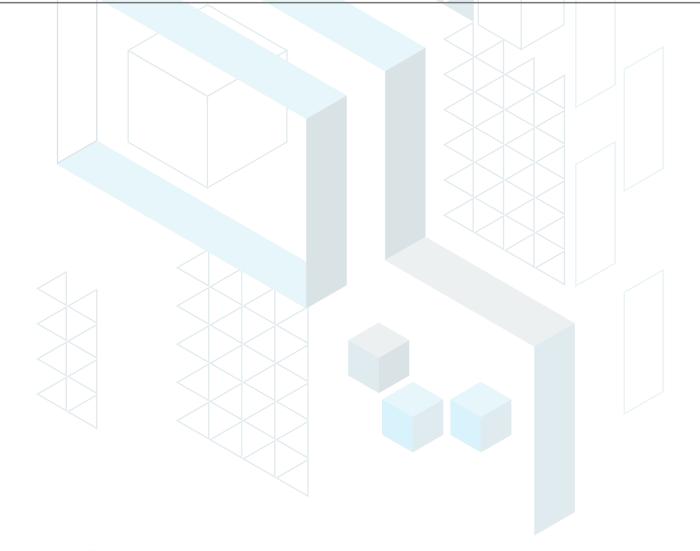
Sample ID: SA-231012-28285 Batch: hc8-hhc-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

Received: 10/17/2023 Completed: 10/27/2023

Heavy Metals by ICP-MS

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

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



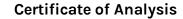
Generated By: Ryan Bellone CCO

Date: 10/27/2023

Tested By: Chris Farman Scientist Date: 10/20/2023



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Sample ID: SA-231012-28285 Batch: hc8-hhc-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

Received: 10/17/2023 Completed: 10/27/2023

Pesticides by LC-MS/MS

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

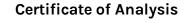
ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone CCO

Date: 10/27/2023

Tested By: Jasper van Heemst Principal Scientist Date: 10/19/2023







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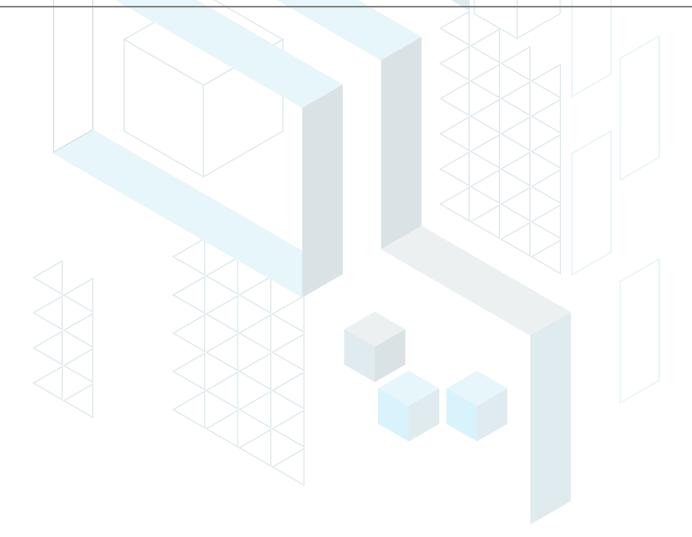
Sample ID: SA-231012-28285 Batch: hc8-hhc-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

Received: 10/17/2023 Completed: 10/27/2023

Mycotoxins by LC-MS/MS

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

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

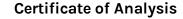


Generated By: Ryan Bellone CCO

Date: 10/27/2023

Tested By: Jasper van Heemst Principal Scientist Date: 10/19/2023







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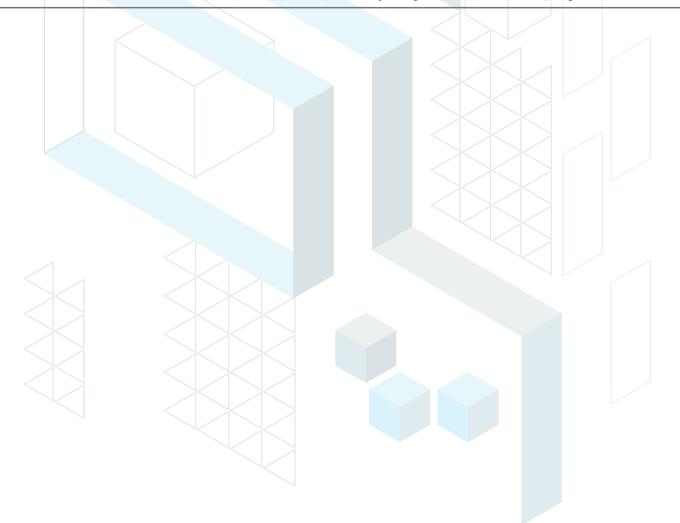
Sample ID: SA-231012-28285 Batch: hc8-hhc-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

Received: 10/17/2023 Completed: 10/27/2023

Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)	Result (Qualitative)	P/F
Total aerobic count	10	ND		Р
Total coliforms	10	ND		Р
Generic E. coli	10	ND		Р
Salmonella spp.	1		Not Detected per 1 gram	P
Shiga-toxin producing E. coli (STEC)	1		Not Detected per 1 gram	Р

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



Generated By: Ryan Bellone CCO Date: 10/27/2023 Tested By: Mario Aguirre Lab Technician Date: 10/20/2023







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Sample ID: SA-231012-28285 Batch: hc8-hhc-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

Received: 10/17/2023 Completed: 10/27/2023

Residual Solvents by HS-GC-MS

Residual Solveni	.s by 110	J GOW							
Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F
Acetone	167	500	ND	Р	Ethylene Oxide	0.5	1	ND	Р
Acetonitrile	14	41	ND	Р	Heptane	167	500	ND	Р
Benzene	0.5	1	ND	Р	n-Hexane	10	29	ND	Р
Butane	167	500	ND	Р	Isobutane	167	500	ND	Р
1-Butanol	167	500	ND	Р	Isopropyl Acetate	167	500	ND	Р
2-Butanol	167	500	ND	Р	Isopropyl Alcohol	167	500	ND	Р
2-Butanone	167	500	ND	Р	Isopropylbenzene	167	500	ND	Р
Chloroform	2	6	ND	Р	Methanol	100	300	ND	Р
Cyclohexane	129	388	ND	Р	2-Methylbutane	10	29	ND	Р
1,2-Dichloroethane	0.5	1	ND	Р	Methylene Chloride	20	60	ND	Р
1,2-Dimethoxyethane	4	10	ND	Р	2-Methylpentane	10	29	ND	Р
Dimethyl Sulfoxide	167	500	ND	Р	3-Methylpentane	10	29	ND	Р
N,N-Dimethylacetamide	37	109	ND	Р	n-Pentane	167	500	ND	Р
2,2-Dimethylbutane	10	29	ND	Р	1-Pentanol	167	500	ND	Р
2,3-Dimethylbutane	10	29	ND	Р	n-Propane	167	500	ND	Р
N,N-Dimethylformamide	30	88	ND	Р	1-Propanol	167	500	ND	Р
2,2-Dimethylpropane	167	500	ND	Р	Pyridine	7	20	ND	Р
1,4-Dioxane	13	38	ND	Р	Tetrahydrofuran	24	72	ND	Р
Ethanol	167	500	ND	Р	Toluene	30	89	ND	Р
2-Ethoxyethanol	6	16	ND	Р	Trichloroethylene	3	8	ND	Р
Ethyl Acetate	167	500	ND	Р	Xylenes (o-, m-, and p-)	73	217	ND	Р
Ethyl Ether	167	500	ND	Р					
Ethylbenzene	3	7	ND	Р			<u> 11 </u>		

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

Red

Generated By: Ryan Bellone CCO Kelsey Rogers

Tested By: Kelsey Rogers Scientist Date: 10/19/2023



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Sample ID: SA-231012-28285 Batch: hc8-hhc-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

Received: 10/17/2023 Completed: 10/27/2023

Reporting Limit Appendix

Heavy Metals - Colorado CDPHE

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

Microbials -

Analyte	Limit (CFU/	Analyte	Limit (CFU/ g)
Total coliforms	100	Total aerobic count	10000

Residual Solvents - USP 467

Analyte	Limit (ppm)	Analyte	Limit (ppn
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)
Aldicarb	30	Imidacloprid	3000
Azoxystrobin	40000	Kresoxim methyl	1000
Bifenazate	5000	Malathion	5000
Bifenthrin	500	Metalaxyl	15000
Boscalid	10000	Methiocarb	30
Carbaryl	500	Methomyl	100
Carbofuran	30	Mevinphos	30
Chloranthraniliprole	40000	Myclobutanil	9000
Chlorfenapyr	30	Naled	500
Chlorpyrifos	30	Oxamyl	200
Clofentezine	500	Paclobutrazol	30
Coumaphos	30	Phosmet	200
Daminozide	30	Piperonyl Butoxide	8000
Diazinon	200	Prallethrin	400
Dichlorvos	30	Propiconazole	20000
Dimethoate	30	Propoxur	30
Dimethomorph	20000	Pyrethrins	1000
Ethoprophos	30	Pyridaben	3000
Etofenprox	30	Spinetoram	3000
Etoxazole	1500	Spinosad	3000
Fenhexamid	10000	Spiromesifen	12000
Fenoxycarb	30	Spirotetramat	13000
Fenpyroximate	2000	Spiroxamine	30
Fipronil	30	Tebuconazole	2000
Flonicamid	2000	Thiacloprid	30
Fludioxonil	30000	Thiamethoxam	4500

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)
Acephate	5000	Hexythiazox	2000
Acetamiprid	5000	Imazalil	30

enerated By: Ryan Bellone

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