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1 of 7

## h4cbd

Sample ID: SA-231012-28286 Batch: hc8-h4c-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

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

Highly Concentr8ed 1919 Northgate Blvd Sarasota, FL 34234 USA

Lic. #: 2021-N-1909467



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

63.4 % 9R-H4-CBD

97.7 % Total Cannabinoids

**Not Tested** Moisture Content

**Not Tested** Foreign Matter

Internal Standard Normalization

Yes

Cannabinoids by HPLC-PDA and/or GC-MS/MS

Analyte	LOD (%)	LOQ	Result	Result (mg/g)
CDC		(%)	(%)	
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
9R-H4-CBD	0.0067	0.02	63.4	634
9S-H4-CBD	0.0067	0.02	34.3	343
Total Δ9-THC			ND	ND
Total			97.7	977

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit;  $\Delta$  = Delta; Total  $\Delta$ 9-THC =  $\Delta$ 9-THC4 \* 0.877 +  $\Delta$ 9-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

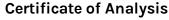








This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of 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 and provide measurement uncertainty upon request.





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2 of 7

## h4cbd

Sample ID: SA-231012-28286 Batch: hc8-h4c-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

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

Highly Concentr8ed 1919 Northgate Blvd Sarasota, FL 34234

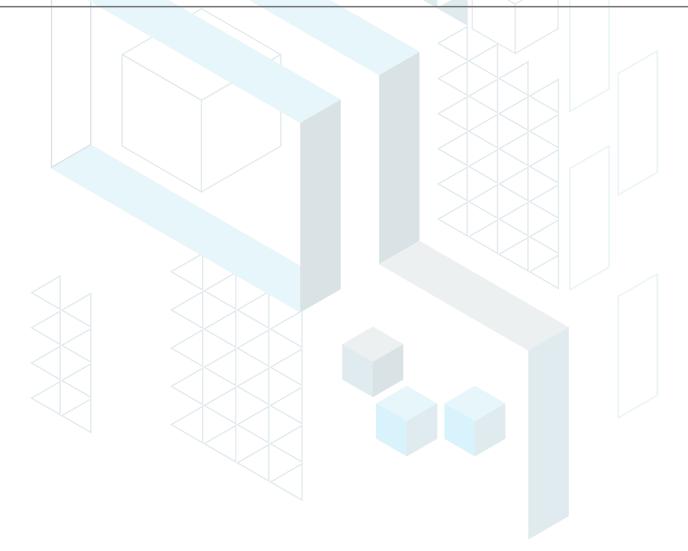
USA

Lic. #: 2021-N-1909467

# **Heavy Metals by ICP-MS**

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Arsenic	2	20	ND	Р
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

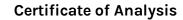


Generated By: Ryan Bellone

CCO Date: 10/27/2023 Tested By: Chris Farman Scientist Date: 10/20/2023



This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 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 and provide measurement uncertainty upon request.





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3 of 7

### h4cbd

Sample ID: SA-231012-28286 Batch: hc8-h4c-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

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

Highly Concentr8ed 1919 Northgate Blvd Sarasota, FL 34234

USA

Lic. #: 2021-N-1909467

# Pesticides by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Acephate	30	100	ND	Р	Hexythiazox	30	100	ND	Р
Acetamiprid	30	100	ND	Р	Imazalil	30	100	ND	Р
Aldicarb	30	100	ND	Р	Imidacloprid	30	100	ND	Р
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	P	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	Permethrin	30	100	ND	Р
Daminozide	30	100	ND	Р	Phosmet	30	100	ND	Р
Diazinon	30	100	ND	Р	Piperonyl Butoxide	30	100	ND	Р
Dichlorvos	30	100	ND	Р	Prallethrin	30	100	ND	Р
Dimethoate	30	100	ND	Р	Propiconazole	30	100	ND	Р
Dimethomorph	30	100	ND	Р	Propoxur	30	100	ND	Р
Ethoprophos	30	100	ND	Р	Pyrethrins	30	100	ND	Р
Etofenprox	30	100	ND	Р	Pyridaben	30	100	ND	Р
Etoxazole	30	100	ND	Р	Spinetoram	30	100	ND	Р
Fenhexamid	30	100	ND	Р	Spinosad	30	100	ND	Р
Fenoxycarb	30	100	ND	Р	Spiromesifen	30	100	ND	Р
Fenpyroximate	30	100	ND	P	Spirotetramat	30	100	ND	Р
Fipronil	30	100	ND	Р	Spiroxamine	30	100	ND	Р
Flonicamid	30	100	ND	Р	Tebuconazole	30	100	ND	Р
Fludioxonil	30	100	ND	P	Thiacloprid	30	100	ND	Р
					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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## **Certificate of Analysis**

4 of 7

### h4cbd

Sample ID: SA-231012-28286 Batch: hc8-h4c-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

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

Highly Concentr8ed 1919 Northgate Blvd Sarasota, FL 34234

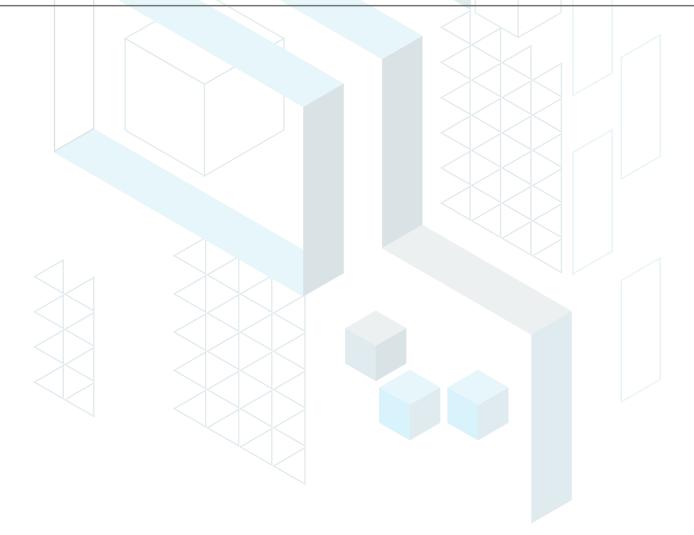
USA

Lic. #: 2021-N-1909467

# Mycotoxins by LC-MS/MS

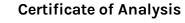
Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F	
B1	i	5	ND	P	
B2	1	5	ND	Р	
G1	1	5	ND	Р	
G2	1	5	ND	P	
Ochratoxin A	1	5	ND	P	
					<u> </u>

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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5 of 7

## h4cbd

Sample ID: SA-231012-28286 Batch: hc8-h4c-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

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Highly Concentr8ed 1919 Northgate Blvd Sarasota, FL 34234

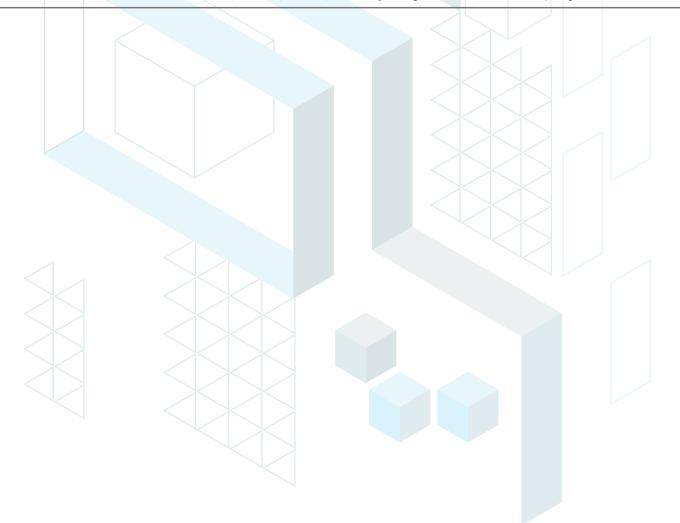
USA

Lic. #: 2021-N-1909467

# 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

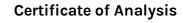
ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone CCO Date: 10/27/2023

Lab Technician Date: 10/20/2023







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6 of 7

### h4cbd

Sample ID: SA-231012-28286 Batch: hc8-h4c-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

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

Highly Concentr8ed 1919 Northgate Blvd Sarasota, FL 34234

USA

Lic. #: 2021-N-1909467

# 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 ND	Р	Ethylene Oxide	0.5	1	ND ND	P
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	P	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					

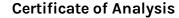
ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone CCO

Date: 10/27/2023

Tested By: Kelsey Rogers Scientist







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7 of 7

### h4cbd

Sample ID: SA-231012-28286 Batch: hc8-h4c-1123 Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

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

### Client

Highly Concentr8ed 1919 Northgate Blvd Sarasota, FL 34234 USA

Lic. #: 2021-N-1909467

# **Reporting Limit Appendix**

### Heavy Metals - Colorado CDPHE

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

#### Microbials -

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

#### 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)
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	Permethrin	20000
Daminozide	30	Phosmet	200
Diazinon	200	Piperonyl Butoxide	8000
Dichlorvos	30	Prallethrin	400
Dimethoate	30	Propiconazole	20000
Dimethomorph	20000	Propoxur	30
Ethoprophos	30	Pyrethrins	1000
Etofenprox	30	Pyridaben	3000
Etoxazole	1500	Spinetoram	3000
Fenhexamid	10000	Spinosad	3000
Fenoxycarb	30	Spiromesifen	12000
Fenpyroximate	2000	Spirotetramat	13000
Fipronil	30	Spiroxamine	30
Flonicamid	2000	Tebuconazole	2000
Fludioxonil	30000	Thiacloprid	30

### 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

