Certificate of Analysis

Amended

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Hemp World

NV
Las Vegas, NV 89119
hempworldvegas@gmail.com
(702) 338-6941
Lic. #

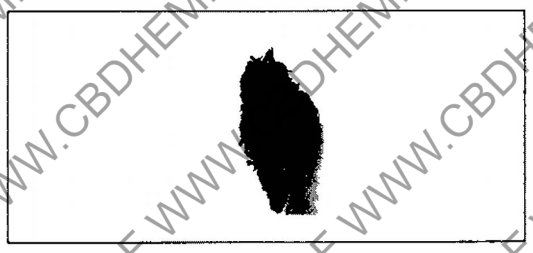
Sample: 2008NVC1909-11218

Strain: OG Kush

Sample Received: 08/20/2020; Report Created: 08/20/2020

OG Kush

Plant, Flower - Cured
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



The photo on this report is of a sample collected by the lab and may vary from the final packaging

Safety

Not Tested Pesticides	**Not Tested** Microbials	**Not Tested** Mycotoxins
Not Tested Solvents	**Not Tested** Heavy Metals	**Not Tested** Foreign Matter

Cannabinoids

<LOQ THCa	<LOQ Δ9-THC	21.814% Total Potential CBD	NT Moisture

Analyte	LOQ	Mass %	Mass mg/g
	%		
THCa	0.116	<0.116	<1.16
Δ9-THC	0.116	<0.116	<1.16
CBD	0.116	5.361	53.61
CBDa	0.116	18.760	187.60
CBC	0.058	0.389	3.89
CBG	0.058	0.227	2.27
CBN	0.116	<0.116	<1.16
THCV	0.058	0.129	1.29
Δ8-THC	0.058	8.690	86.90
CBGa	0.058	0.509	5.09
CBDV	0.058	<0.058	<0.58
Total		**25.375**	**253.75**

Total THC = THCa * 0.877 + Δ9-THC + Δ8-THC
Total CBD = CBDa * 0.877 + CBD
Total Edible THC = Δ9-THC + Δ8-THC
LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Cannabinoids analyzed by SOP-021.

Notes:

Terpenes

Cinnamon	Chamomile	Hops	7.657 mg/g Total Terpenes

Analyte	LOQ	Mass mg/g	Mass %
β-Caryophyllene	0.093	2.248	0.2248
α-Bisabolol	0.093	1.483	0.1483
α-Humulene	0.093	1.032	0.1032
β-Myrcene	0.093	0.763	0.0763
(-)-Guaiol	0.093	0.493	0.0493
δ-Limonene	0.093	0.321	0.0321
Caryophyllene Oxide	0.093	0.318	0.0318
α-Pinene	0.093	0.307	0.0307
Linalool	0.093	0.304	0.0304
(-)-β-Pinene	0.093	0.196	0.0196
Nerolidol	0.093	0.194	0.0194
α-Terpinene	0.093	<0.093	<0.0093
Camphene	0.093	<0.093	<0.0093
δ-3-Carene	0.093	<0.093	<0.0093
γ-Terpinene	0.093	<0.093	<0.0093
Geraniol	0.093	<0.093	<0.0093
Ocimene	0.093	<0.093	<0.0093
(-)-Isopulegol	0.093	<0.093	<0.0093
p-Cymene	0.093	<0.093	<0.0093
Terpinolene	0.093	<0.093	<0.0093

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Terpenes analyzed by SOP-022.

Amended

Rev.1: Changed client name, original CoA found at 1909NVC1403-704

Hui Wang
Scientific Director

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Certificate of Analysis

ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE

Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Potency	Heavy Metals	Mycotoxins
Tested	Passed	Passed
Pesticides	**Residual Solvents**	**Listeria Monocytogenes**
Passed	Passed	Passed
Pathogenic		
Passed		

The photos on this report are of a sample collected by the lab and may vary from the final packaging.

Total CBD	Total THC	Total CBG
Not Detected	Not Detected	Not Detected
Total CBN	**Other Cannabinoids**	**Total Cannabinoids**
Not Detected	Not Detected	Not Detected

Potency - 11 (Tested) (HPLC/LCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		<LOQ	0.001	CBD		<LOQ	0.001	CBDA		<LOQ	0.001
CBDV		<LOQ	0.001	CBG		<LOQ	0.001	CBGA		<LOQ	0.001
CBN		<LOQ	0.001	Delta-8 THC	802.860	80.286	0.001	Delta-9 THC		<LOQ	0.001
THCA-A		<LOQ	0.001	THCV		<LOQ	0.001	Total CBD		<LOQ	0.001
Total THC		<LOQ	0.001								

*Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A *0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Principal Scientist

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ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE

Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Heavy Metals (Passed) (ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	1500	<LOQ	100	Cadmium (Cd)	500	<LOQ	100	Lead (Pb)	500	<LOQ	100
Mercury (Hg)	3000	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Mycotoxins (Passed) (LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1	20	<LOQ	6	Aflatoxin B2	20	<LOQ	6	Aflatoxin G1	20	<LOQ	6
Aflatoxin G2	20	<LOQ	6	Ochratoxin A	20	<LOQ	12				

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Pesticides FL V4 (Non-Inhalable) (Passed) (LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	300	<LOQ	28.23
Acetamiprid	3000	<LOQ	30
Bifenazate	3000	<LOQ	30
Captan	3000	<LOQ	30
Chlorantraniliprole	3000	<LOQ	10
Chlormequat Chloride	3000	<LOQ	10
Cypermethrin	1000	<LOQ	30
Dichlorvos	100	<LOQ	30
Ethoprophos	100	<LOQ	30
Fenhexamid	3000	<LOQ	10
Fipronil	100	<LOQ	30
Hexythiazox	2000	<LOQ	30
Kresoxim Methyl	1000	<LOQ	30
Methiocarb	100	<LOQ	30
Mevinphos	100	<LOQ	10
Oxamyl	500	<LOQ	30
Permethrin	1000	<LOQ	30
Prallethrin	400	<LOQ	30
Pyrethrins	1000	<LOQ	30
Spinosad	3000	<LOQ	30
Spiroxamine	100	<LOQ	30
Thiamethoxam	1000	<LOQ	30

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Acephate	3000	<LOQ	30
Aldicarb	100	<LOQ	30
Bifenthrin	500	<LOQ	30
Carbaryl	500	<LOQ	10
Chlordane	100	<LOQ	10
Chlorpyrifos	100	<LOQ	30
Coumaphos	100	<LOQ	48
Daminozide	100	<LOQ	30
Dimethoate	100	<LOQ	30
Etofenprox	100	<LOQ	30
Fenoxycarb	100	<LOQ	30
Flonicamid	2000	<LOQ	30
Imazalil	100	<LOQ	30
Malathion	2000	<LOQ	30
Methomyl	100	<LOQ	30
Myclobutanil	3000	<LOQ	30
Paclobutrazol	100	<LOQ	30
Phosmet	200	<LOQ	30
Propiconazole	1000	<LOQ	30
Pyridaben	3000	<LOQ	30
Spiromesifen	3000	<LOQ	30
Tebuconazole	1000	<LOQ	30
Trifloxystrobin	3000	<LOQ	30

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Acequinocyl	2000	<LOQ	48
Azoxystrobin	3000	<LOQ	10
Boscalid	3000	<LOQ	10
Carbofuran	100	<LOQ	10
Chlorfenapyr	100	<LOQ	30
Clofentezine	500	<LOQ	30
Cyfluthrin	1000	<LOQ	30
Diazinon	200	<LOQ	30
Dimethomorph	3000	<LOQ	48
Etoxazole	1500	<LOQ	30
Fenpyroximate	2000	<LOQ	30
Fludioxonil	3000	<LOQ	48
Imidacloprid	3000	<LOQ	30
Metalaxyl	3000	<LOQ	10
methyl-Parathion	100	<LOQ	10
Naled	500	<LOQ	30
Pentachloronitrobenzene	200	<LOQ	10
Piperonylbutoxide	3000	<LOQ	30
Propoxur	100	<LOQ	30
Spinetoram	3000	<LOQ	10
Spirotetramat	3000	<LOQ	30
Thiacloprid	100	<LOQ	30

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Principal Scientist

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Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Residual Solvents (CBD) (Passed) (GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
1,1-Dichloroethene	8	<LOQ	0.16	1,2-dichloroethane	5	<LOQ	0.04	Acetone	5000	<LOQ	2.08
Benzene	2	<LOQ	0.02	Butanes	2000	<LOQ	2.5	Acetonitrile	410	<LOQ	1.17
Ethanol	5000	<LOQ	2.78	Ethyl Acetate	5000	<LOQ	1.11	Chloroform	60	<LOQ	0.04
Ethylene Oxide	5	<LOQ	0.1	Heptane	5000	<LOQ	1.39	Ethyl Ether	5000	<LOQ	1.39
Isopropyl alcohol	500	<LOQ	1.39	Methanol	3000	<LOQ	0.69	Hexane	290	<LOQ	1.17
Pentane	5000	<LOQ	2.08	Propane	2100	<LOQ	5.83	Methylene chloride	600	<LOQ	2.43
Total Xylenes	2170	<LOQ	2.92	Trichloroethylene	80	<LOQ	0.49	Toluene	890	<LOQ	2.92

(ppm) = Parts per Million, (ppm) = (µg/g), , LOQ = Limit of Quantitation

Listeria Monocytogenes (Passed) (qPCR)

Analyte	Result
Listeria Monocytogenes	Absence in 1g

Xueli Gao, Ph.D., DABT — Lab Toxicologist

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Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Pathogenic SE (qPCR) (Passed) (qPCR)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
E.Coli	Absence	Salmonella	Absence		

(cfu/g) = Colony Forming Unit per Gram

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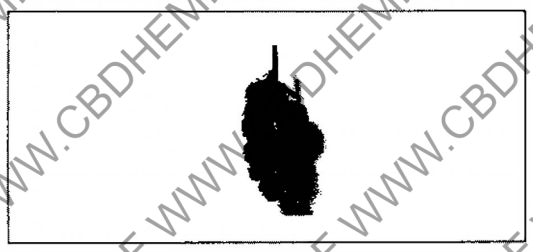
Sample: 2008NVC1909-11219

Strain: Haze

Sample Received: 08/20/2020; Report Created: 08/20/2020

Haze

Plant, Flower - Cured
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



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Safety

Not Tested Pesticides	**Not Tested** Microbials	**Not Tested** Mycotoxins
Not Tested Solvents	**Not Tested** Heavy Metals	**Not Tested** Foreign Matter

Cannabinoids

<LOQ THCa	<LOQ Δ9-THC	20.537% Total Potential CBD	NT Moisture

Analyte	LOQ	Mass	Mass
	%	%	mg/g
THCa	0.115	<0.115	<1.15
Δ9-THC	0.115	<0.115	<1.15
CBD	0.115	4.854	48.54
CBDa	0.115	17.882	178.82
CBC	0.058	0.371	3.71
CBG	0.058	0.160	1.60
CBN	0.115	<0.115	<1.15
THCV	0.058	0.316	3.16
Δ8-THC	0.058	8.551	85.51
CBGa	0.058	0.399	3.99
CBDV	0.058	<0.058	<0.58
Total		**23.982**	**239.82**

Total THC = THCa * 0.877 + Δ9-THC + Δ8-THC
Total CBD = CBDa * 0.877 + CBD
Total Edible THC = Δ9-THC + Δ8-THC
LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Cannabinoids analyzed by SOP-021.

Notes:

Terpenes

Cinnamon	Hops	Chamomile	10.976 mg/g Total Terpenes

Analyte	LOQ	Mass	Mass
	mg/g	mg/g	%
β-Caryophyllene	0.092	2.559	0.2559
β-Myrcene	0.092	2.444	0.2444
α-Humulene	0.092	1.434	0.1434
α-Bisabolol	0.092	1.009	0.1009
(-)-Guaiol	0.092	0.685	0.0685
α-Pinene	0.092	0.599	0.0599
δ-Limonene	0.092	0.510	0.0510
Linalool	0.092	0.496	0.0496
Caryophyllene Oxide	0.092	0.456	0.0456
(-)-β-Pinene	0.092	0.394	0.0394
Nerolidol	0.092	0.236	0.0236
Ocimene	0.092	0.154	0.0154
α-Terpinene	0.092	<0.092	<0.0092
Camphene	0.092	<0.092	<0.0092
δ-3-Carene	0.092	<0.092	<0.0092
γ-Terpinene	0.092	<0.092	<0.0092
Geraniol	0.092	<0.092	<0.0092
(-)-Isopulegol	0.092	<0.092	<0.0092
p-Cymene	0.092	<0.092	<0.0092
Terpinolene	0.092	<0.092	<0.0092

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Terpenes analyzed by SOP-022.

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Rev.1: Changed client name, original CoA found at 1909NVC1403-704

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Scientific Director

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Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Potency	Heavy Metals	Mycotoxins
Tested	Passed	Passed
Pesticides	**Residual Solvents**	**Listeria Monocytogenes**
Passed	Passed	Passed
Pathogenic		
Passed		

The photos on this report are of a sample collected by the lab and may vary from the final packaging.

Total CBD	Total THC	Total CBG
Not Detected	Not Detected	Not Detected
Total CBN	**Other Cannabinoids**	**Total Cannabinoids**
Not Detected	Not Detected	Not Detected

Potency - 11 (Tested) (HPLC/LCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		<LOQ	0.001	CBD		<LOQ	0.001	CBDA		<LOQ	0.001
CBDV		<LOQ	0.001	CBG		<LOQ	0.001	CBGA		<LOQ	0.001
CBN		<LOQ	0.001	Delta-8 THC	802.860	80.286	0.001	Delta-9 THC		<LOQ	0.001
THCA-A		<LOQ	0.001	THCV		<LOQ	0.001	Total CBD		<LOQ	0.001
Total THC		<LOQ	0.001								

*Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A *0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Principal Scientist

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Certificate of Analysis

ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE

Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Heavy Metals (Passed) (ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	1500	<LOQ	100	Cadmium (Cd)	500	<LOQ	100	Lead (Pb)	500	<LOQ	100
Mercury (Hg)	3000	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Mycotoxins (Passed) (LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1	20	<LOQ	6	Aflatoxin B2	20	<LOQ	6	Aflatoxin G1	20	<LOQ	6
Aflatoxin G2	20	<LOQ	6	Ochratoxin A	20	<LOQ	12				

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Pesticides FL V4 (Non-Inhalable) (Passed) (LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	300	<LOQ	28.23
Acetamiprid	3000	<LOQ	30
Bifenazate	3000	<LOQ	30
Captan	3000	<LOQ	30
Chlorantraniliprole	3000	<LOQ	10
Chlormequat Chloride	3000	<LOQ	10
Cypermethrin	1000	<LOQ	30
Dichlorvos	100	<LOQ	30
Ethoprophos	100	<LOQ	30
Fenhexamid	3000	<LOQ	10
Fipronil	100	<LOQ	30
Hexythiazox	2000	<LOQ	30
Kresoxim Methyl	1000	<LOQ	30
Methiocarb	100	<LOQ	30
Mevinphos	100	<LOQ	10
Oxamyl	500	<LOQ	30
Permethrin	1000	<LOQ	30
Prallethrin	400	<LOQ	30
Pyrethrins	1000	<LOQ	30
Spinosad	3000	<LOQ	30
Spiroxamine	100	<LOQ	30
Thiamethoxam	1000	<LOQ	30

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Acephate	3000	<LOQ	30
Aldicarb	100	<LOQ	30
Bifenthrin	500	<LOQ	30
Carbaryl	500	<LOQ	10
Chlordane	100	<LOQ	10
Chlorpyrifos	100	<LOQ	30
Coumaphos	100	<LOQ	48
Daminozide	100	<LOQ	30
Dimethoate	100	<LOQ	30
Etofenprox	100	<LOQ	30
Fenoxycarb	100	<LOQ	30
Flonicamid	2000	<LOQ	30
Imazalil	100	<LOQ	30
Malathion	2000	<LOQ	30
Methomyl	100	<LOQ	30
Myclobutanil	3000	<LOQ	30
Paclobutrazol	100	<LOQ	30
Phosmet	200	<LOQ	30
Propiconazole	1000	<LOQ	30
Pyridaben	3000	<LOQ	30
Spiromesifen	3000	<LOQ	30
Tebuconazole	1000	<LOQ	30
Trifloxystrobin	3000	<LOQ	30

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Acequinocyl	2000	<LOQ	48
Azoxystrobin	3000	<LOQ	10
Boscalid	3000	<LOQ	10
Carbofuran	100	<LOQ	10
Chlorfenapyr	100	<LOQ	30
Clofentezine	500	<LOQ	30
Cyfluthrin	1000	<LOQ	30
Diazinon	200	<LOQ	30
Dimethomorph	3000	<LOQ	48
Etoxazole	1500	<LOQ	30
Fenpyroximate	2000	<LOQ	30
Fludioxonil	3000	<LOQ	48
Imidacloprid	3000	<LOQ	30
Metalaxyl	3000	<LOQ	10
methyl-Parathion	100	<LOQ	10
Naled	500	<LOQ	30
Pentachloronitrobenzene	200	<LOQ	10
Piperonylbutoxide	3000	<LOQ	30
Propoxur	100	<LOQ	30
Spinetoram	3000	<LOQ	10
Spirotetramat	3000	<LOQ	30
Thiacloprid	100	<LOQ	30

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Principal Scientist

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ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE

Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Residual Solvents (CBD) (Passed) (GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
1,1-Dichloroethene	8	<LOQ	0.16	1,2-dichloroethane	5	<LOQ	0.04	Acetone	5000	<LOQ	2.08
Benzene	2	<LOQ	0.02	Butanes	2000	<LOQ	2.5	Acetonitrile	410	<LOQ	1.17
Ethanol	5000	<LOQ	2.78	Ethyl Acetate	5000	<LOQ	1.11	Chloroform	60	<LOQ	0.04
Ethylene Oxide	5	<LOQ	0.1	Heptane	5000	<LOQ	1.39	Ethyl Ether	5000	<LOQ	1.39
Isopropyl alcohol	500	<LOQ	1.39	Methanol	3000	<LOQ	0.69	Hexane	290	<LOQ	1.17
Pentane	5000	<LOQ	2.08	Propane	2100	<LOQ	5.83	Methylene chloride	600	<LOQ	2.43
Total Xylenes	2170	<LOQ	2.92	Trichloroethylene	80	<LOQ	0.49	Toluene	890	<LOQ	2.92

(ppm) = Parts per Million, (ppm) = (µg/g), , LOQ = Limit of Quantitation

Listeria Monocytogenes (Passed) (qPCR)

Analyte	Result
Listeria Monocytogenes	Absence in 1g

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Principal Scientist

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Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Pathogenic SE (qPCR) (Passed) (qPCR)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
E.Coli	Absence	Salmonella	Absence		

(cfu/g) = Colony Forming Unit per Gram

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Principal Scientist

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Hemp World

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Las Vegas, NV 89119
hempworldvegas@gmail.com
(702) 338-6941
Lic. #

Sample: 2008NVC1909-11225

Strain: Glue

Sample Received: 08/20/2020; Report Created: 08/20/2020

Glue

Plant, Flower - Cured
Harvest Process Lot: ; METRC Batch: ; METRC Sample:

The photo on this report is of a sample collected by the lab and may vary from the final packaging

Safety

Not Tested Pesticides	**Not Tested** Microbials	**Not Tested** Mycotoxins
Not Tested Solvents	**Not Tested** Heavy Metals	**Not Tested** Foreign Matter

Cannabinoids

<LOQ	<LOQ	18.284%	NT
THCa	Δ9-THC	Total Potential CBD	Moisture

Analyte	LOQ	Mass %	Mass mg/g
THCa	0.255	<0.116	<1.16
Δ9-THC	0.255	<0.116	<1.16
CBD	0.102	0.220	2.20
CBDa	0.255	20.597	205.97
CBC	0.013	0.104	1.04
CBG	0.128	<0.128	<1.28
CBN	0.255	<0.255	<2.55
THCV	0.128	0.346	3.46
Δ8-THC	0.128	8.387	83.87
CBGa	0.128	0.588	5.88
CBDV	0.128	<0.128	<1.28
Total		**22.676**	**226.76**

Total THC = THCa * 0.877 + Δ9-THC + Δ8-THC
Total CBD = CBDa * 0.877 + CBD
Total Edible THC = Δ9-THC + Δ8-THC
LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Cannabinoids analyzed by SOP-021.

Notes:

Terpenes

Hops	Cinnamon	Turpentine	17.623 mg/g
			Total Terpenes

Analyte	LOQ	Mass mg/g	Mass %
β-Myrcene	0.102	6.156	0.6156
β-Caryophyllene	0.102	2.869	0.2869
Terpinolene	0.102	2.148	0.2148
α-Humulene	0.102	1.422	0.1422
α-Pinene	0.102	1.228	0.1228
Ocimene	0.102	1.181	0.1181
(-)-β-Pinene	0.102	0.798	0.0798
δ-Limonene	0.102	0.758	0.0758
α-Bisabolol	0.102	0.406	0.0406
(-)-Guaiol	0.102	0.381	0.0381
Linalool	0.102	0.277	0.0277
α-Terpinene	0.102	<0.102	<0.0102
Camphene	0.102	<0.102	<0.0102
Caryophyllene Oxide	0.102	<0.102	<0.0102
δ-3-Carene	0.102	<0.102	<0.0102
γ-Terpinene	0.102	<0.102	<0.0102
Geraniol	0.102	<0.102	<0.0102
Nerolidol	0.102	<0.102	<0.0102
(-)-Isopulegol	0.102	<0.102	<0.0102
p-Cymene	0.102	<0.102	<0.0102

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Terpenes analyzed by SOP-022.

Amended

6631 Schuster Street
Las Vegas, NV
(702) 826-2700
http://www.nvcann.com

Rev.1: Changed client name, original CoA found at 1910NVC1598-8478

Hui Wang
Scientific Director

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(866) 506-5866

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ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE

Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Potency **Tested**	Heavy Metals **Passed**	Mycotoxins **Passed**
Pesticides **Passed**	Residual Solvents **Passed**	Listeria Monocytogenes **Passed**
Pathogenic **Passed**		

The photos on this report are of a sample collected by the lab and may vary from the final packaging.

Total CBD Not Detected	**Total THC** Not Detected	**Total CBG** Not Detected
Total CBN Not Detected	**Other Cannabinoids** Not Detected	**Total Cannabinoids** Not Detected

Potency - 11 (Tested) (HPLC/LCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		<LOQ	0.001	CBD		<LOQ	0.001	CBDA		<LOQ	0.001
CBDV		<LOQ	0.001	CBG		<LOQ	0.001	CBGA		<LOQ	0.001
CBN		<LOQ	0.001	Delta-8 THC	802.860	80.286	0.001	Delta-9 THC		<LOQ	0.001
THCA-A		<LOQ	0.001	THCV		<LOQ	0.001	Total CBD		<LOQ	0.001
Total THC		<LOQ	0.001								

*Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A *0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Principal Scientist

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Description: Delta 8

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Method: SOP-3

Heavy Metals (Passed) (ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	1500	<LOQ	100	Cadmium (Cd)	500	<LOQ	100	Lead (Pb)	500	<LOQ	100
Mercury (Hg)	3000	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Mycotoxins (Passed) (LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1	20	<LOQ	6	Aflatoxin B2	20	<LOQ	6	Aflatoxin G1	20	<LOQ	6
Aflatoxin G2	20	<LOQ	6	Ochratoxin A	20	<LOQ	12				

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Pesticides FL V4 (Non-Inhalable) (Passed) (LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	300	<LOQ	28.23
Acetamiprid	3000	<LOQ	30
Bifenazate	3000	<LOQ	30
Captan	3000	<LOQ	30
Chlorantraniliprole	3000	<LOQ	10
Chlormequat Chloride	3000	<LOQ	10
Cypermethrin	1000	<LOQ	30
Dichlorvos	100	<LOQ	30
Ethoprophos	100	<LOQ	30
Fenhexamid	3000	<LOQ	10
Fipronil	100	<LOQ	30
Hexythiazox	2000	<LOQ	30
Kresoxim Methyl	1000	<LOQ	30
Methiocarb	100	<LOQ	30
Mevinphos	100	<LOQ	10
Oxamyl	500	<LOQ	30
Permethrin	1000	<LOQ	30
Prallethrin	400	<LOQ	30
Pyrethrins	1000	<LOQ	30
Spinosad	3000	<LOQ	30
Spiroxamine	100	<LOQ	30
Thiamethoxam	1000	<LOQ	30

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Acephate	3000	<LOQ	30
Aldicarb	100	<LOQ	30
Bifenthrin	500	<LOQ	30
Carbaryl	500	<LOQ	10
Chlordane	100	<LOQ	10
Chlorpyrifos	100	<LOQ	30
Coumaphos	100	<LOQ	48
Daminozide	100	<LOQ	30
Dimethoate	100	<LOQ	30
Etofenprox	100	<LOQ	30
Fenoxycarb	100	<LOQ	30
Flonicamid	2000	<LOQ	30
Imazalil	100	<LOQ	30
Malathion	2000	<LOQ	30
Methomyl	100	<LOQ	30
Myclobutanil	3000	<LOQ	30
Paclobutrazol	100	<LOQ	30
Phosmet	200	<LOQ	30
Propiconazole	1000	<LOQ	30
Pyridaben	3000	<LOQ	30
Spiromesifen	3000	<LOQ	30
Tebuconazole	1000	<LOQ	30
Trifloxystrobin	3000	<LOQ	30

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Acequinocyl	2000	<LOQ	48
Azoxystrobin	3000	<LOQ	10
Boscalid	3000	<LOQ	10
Carbofuran	100	<LOQ	10
Chlorfenapyr	100	<LOQ	30
Clofentezine	500	<LOQ	30
Cyfluthrin	1000	<LOQ	30
Diazinon	200	<LOQ	30
Dimethomorph	3000	<LOQ	48
Etoxazole	1500	<LOQ	30
Fenpyroximate	2000	<LOQ	30
Fludioxonil	3000	<LOQ	48
Imidacloprid	3000	<LOQ	30
Metalaxyl	3000	<LOQ	10
methyl-Parathion	100	<LOQ	10
Naled	500	<LOQ	30
Pentachloronitrobenzene	200	<LOQ	10
Piperonylbutoxide	3000	<LOQ	30
Propoxur	100	<LOQ	30
Spinetoram	3000	<LOQ	10
Spirotetramat	3000	<LOQ	30
Thiacloprid	100	<LOQ	30

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Xueli Gao — Lab Toxicologist
Ph.D., DABT

Aixia Sun — Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Certificate of Analysis

ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE

Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

Batch #: 08021989
Sample #: AAAP129
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Residual Solvents (CBD) (Passed) (GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
1,1-Dichloroethene	8	<LOQ	0.16	1,2-dichloroethane	5	<LOQ	0.04	Acetone	5000	<LOQ	2.08
Benzene	2	<LOQ	0.02	Butanes	2000	<LOQ	2.5	Acetonitrile	410	<LOQ	1.17
Ethanol	5000	<LOQ	2.78	Ethyl Acetate	5000	<LOQ	1.11	Chloroform	60	<LOQ	0.04
Ethylene Oxide	5	<LOQ	0.1	Heptane	5000	<LOQ	1.39	Ethyl Ether	5000	<LOQ	1.39
Isopropyl alcohol	500	<LOQ	1.39	Methanol	3000	<LOQ	0.69	Hexane	290	<LOQ	1.17
Pentane	5000	<LOQ	2.08	Propane	2100	<LOQ	5.83	Methylene chloride	600	<LOQ	2.43
Total Xylenes	2170	<LOQ	2.92	Trichloroethylene	80	<LOQ	0.49	Toluene	890	<LOQ	2.92

(ppm) = Parts per Million, (ppm) = (µg/g), , LOQ = Limit of Quantitation

Listeria Monocytogenes (Passed) (qPCR)

Analyte	Result
Listeria Monocytogenes	Absence in 1g

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Principal Scientist

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ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE

Order #: CRE200910-010050 **Order Date:** 2020-09-10 **Collection Date:** 2020-09-10 **Report Date:** 2020-09-28

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Extracted From: hemp
Description: Delta 8

Initial Gross Weight: 25.271 g
Method: SOP-3

Pathogenic SE (qPCR) (Passed) (qPCR)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
E.Coli	Absence	Salmonella	Absence		

(cfu/g) = Colony Forming Unit per Gram

Xueli Gao — Lab Toxicologist
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