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Certificate of Analysis

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

ND		0.0902 %	6	0.0902	2 %	Not Tested	Not Tested	Yes
Total ∆9-T	нс	CBN		Total Canna	abinoids	Moisture Content	Foreign Matter	Internal Standard Normalization
Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)				
СВС	0.0095	0.0284	ND	ND				
CBCA	0.0181	0.0543	NT	NT				
CBCV	0.006	0.018	ND	ND				
CBD	0.0081	0.0242	ND	ND				
CBDA	0.0043	0.013	NT	NT				
CBDV	0.0061	0.0182 <	ND	ND				
CBDVA	0.0021	0.0063	NT	NT	6.0 ^(x1,000,000)	ard		Max Intensity : 6,005,
CBG	0.0057	0.0172 <	ND	ND	5.0-	nternal Standar		
CBGA	0.0049	0.0147	NT	NT	4.0-	ernal		
CBL	0.0112	0.0335	ND	ND	3.0-	Ĭ		
CBLA	0.0124	0.0371 <	NT	NT	2.0-			
CBN	0.0056	0.0169	0.0902	0.902	1.0-		S S S S S S S S S S S S S S S S S S S	
CBNA	0.006	0.0181 <	NT	NT	3.0 4.0	5.0 6.0 7.0 8.0 9.0	10.0 11.0 12.0 13.0	14.0 15.0 16.0 17.0 18.0
∆8-THC	0.0104	0.0312	ND	ND				
Δ9-THC	0.0076	0.0227	ND	ND				
∆9-THCA	0.0084	0.0251 <	NT	NT				
Δ9-THCV	0.0069	0.0206	ND	ND				
Δ9-THCVA	0.0062	0.0186	NT	NT				
Total ∆9-THC			ND	ND				
Total CBD			ND	ND				
Total			0.0902	0.902	7			

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-THC + Δ 9-THC; Total CBD = CBDA * 0.877 + CBD;

Generated By: Ryan Bellone Commercial Director Date: 02/10/2022

Tested By: Scott Caudill Senior Scientist Date: 02/08/2022



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Certificate of Analysis

11.5 12.0 12.5 13.0 13.5

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HHC-0A-11222

Sample ID: SA-220113-6627 Batch: Type: In-Process Materials Matrix: Concentrate - Distillate

Received: 01/13/2022 Completed: 02/10/2022 **Client** MC Vivimus 6101 Long Prarie Road St 744 LB 17 Flower Mound, TX 75028 USA

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

					(x1.000.000)
Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	2.75
(6aR,9R,10aR)-HHC	0.4	2.	ND	ND	2.00
(6aR,9S,10aR)-HHC	0.4	2.	ND	ND	1.70
(6aR,9R,10aR)-HHC Acetate			15.6	156.0	1.25
(6aR,9S,10aR)-HHC Acetate			31.0	310.0	0.75
Total Additional Cannabinoids			46.7	467.0	0.50
Total			46.7	467.0	3.0 3.6

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 Commercial Director Date: 02/10/2022

UME

Tested By: Jasper van Heemst Principal Scientist Date: 02/10/2022





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HHC-0A-11222			
Sample ID: SA-220113-6627		i	

Batch: Type: In-Process Materia Matrix: Concentrate - D Heavy Metals	als istillate	Received: 01/13/2022 Completed: 02/10/2022	MC Vivimus 6101 Long Prarie Road St 744 LB 17 Flower Mound, TX 75028 USA
Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Arsenic	2	20	ND
Cadmium	1	20	ND
Lead	2	20	ND
Mercury	12	50	ND

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

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Generated By: Ryan Bellone Commercial Director Date: 02/10/2022

Tested By: Nicholas Howard

ested By: Nicholas Howard Scientist Date: 01/25/2022



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HHC-0A-11222

Sample ID: SA-220113-6627 Batch: Type: In-Process Materials Matrix: Concentrate - Distillate

Received: 01/13/2022 Completed: 02/10/2022 **Client** MC Vivimus 6101 Long Prarie Road St 744 LB 17 Flower Mound, TX 75028 USA

Pesticides by LC-MS/MS and GC-MS/MS

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

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 Commercial Director Date: 02/10/2022

Tested By: Scott Caudill Senior Scientist Date: 02/04/2022



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Certificate of Analysis

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HHC-0A-11222

Sample ID: SA-220113-6627 Batch: Type: In-Process Materials Matrix: Concentrate - Distillate

Received: 01/13/2022 Completed: 02/10/2022 **Client** MC Vivimus 6101 Long Prarie Road St 744 LB 17 Flower Mound, TX 75028 USA

Residual Solvents by HS-GC-MS/MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Acetone	167	500	ND	Ethylene Glycol	21	62	ND
Acetonitrile	14	41	ND	Ethylene Oxide	0.5	1	ND
Benzene	0.5	1	ND	Heptane	167	500	ND
Butane	167	500	ND	n-Hexane	10	29	ND
1-Butanol	167	500	ND	Isobutane	167	500	ND
2-Butanol	167	500	ND	Isopropyl Acetate	167	500	ND
2-Butanone	167	500	ND	Isopropyl Alcohol	167	500	ND
Chloroform	2	6	ND	Isopropylbenzene	167	500	ND
Cyclohexane	130	388	ND	Methanol	100	300	ND
1,2-Dichloroethane	0.5		ND	2-Methylbutane	167	500	ND
1,2-Dimethoxyethane	4	10	ND	Methylene Chloride	20	60	ND
Dimethyl Sulfoxide	167	500	ND	2-Methylpentane	10	29	ND
N,N-Dimethylacetamide	37	109	ND	3-Methylpentane	10	29	ND
2,2-Dimethylbutane	10	29	ND	n-Pentane	167	500	ND
2,3-Dimethylbutane	10	29	ND	1-Pentanol	167	500	ND
N,N-Dimethylformamide	30	88	ND	n-Propane	167	500	ND
2,2-Dimethylpropane	167	500	ND	1-Propanol	167	500	ND
1,4-Dioxane	13	38	ND	Pyridine	7	20	ND
Ethanol	167	500	ND	Tetrahydrofuran	24	72	ND
2-Ethoxyethanol	6	16	ND	Toluene	30	89	ND
Ethyl Acetate	167	500	ND	Trichloroethylene	3	8	ND
Ethyl Ether	167 🧹	500	ND	Tetramethylene Sulfone	6	16	ND
Ethylbenzene	3	7	ND	Xylenes (o-, m-, and p-)	73	217	ND

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 Commercial Director Date: 02/10/2022

Tested By: Scott Caudill Senior Scientist Date: 01/26/2022



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Pesticides - CA BCC

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HHC-0A-11222

Sample ID: SA-220113-6627 Batch: Type: In-Process Materials Matrix: Concentrate - Distillate

Received: 01/13/2022 Completed: 02/10/2022 **Client** MC Vivimus 6101 Long Prarie Road St 744 LB 17 Flower Mound, TX 75028 USA

Reporting Limit Appendix

Heavy Metals -

Analyte	Limit (ppb) Analyte	Limit (ppb)
Arsenic	200 Lead	500
Cadmium	200 Mercury	100

Residual Solvents - USP 467

Analyte	Limit (ppm)	Analyte	Limit (ppm)
Acetone	5000	Ethylene Glycol	620
Acetonitrile	410	Ethylene Oxide	1
Benzene	2	Heptane	5000
Butane	5000	n-Hexane	290
1-Butanol	5000	Isobutane	5000
2-Butanol	5000	Isopropyl Acetate	5000
2-Butanone	5000	Isopropyl Alcohol	5000
Chloroform	60	Isopropylbenzene	5000
Cyclohexane	3880	Methanol	3000
1,2-Dichloroethane	5	2-Methylbutane	5000
1,2-Dimethoxyethane	100	Methylene Chloride	600
Dimethyl Sulfoxide	5000	2-Methylpentane	290
N,N-Dimethylacetamide	1090	3-Methylpentane	290
2,2-Dimethylbutane	290	n-Pentane	5000
	290	1-Pentanol	5000
N,N-Dimethylformamide	880	n-Propane	5000
2,2-Dimethylpropane	5000	1-Propanol	5000
1,4-Dioxane	380	Pyridine	200
Ethanol	5000	Tetrahydrofuran	720
2-Ethoxyethanol	160	Toluene	890
Ethyl Acetate	5000	Trichloroethylene	80
Ethyl Ether	5000	Tetramethylene Sulfone	160
Ethylbenzene	70	Xylenes (o-, m-, and p-)	2170

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Chloranthraniliprole	40000	Myclobutanil	9000
Chlorfenapyr	30	Naled	500
Chlorpyrifos	30	Oxamyl	200
Coumaphos	30	Paclobutrazol	30
Daminozide	30	Permethrin	20000
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
Fludioxonil	30000	Tebuconazole	2000

Pesticides - CA BCC

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



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