

vena	Q SOP.006.T8 Vena CBD Product Certificate of Analysis (CofA) Template		
	Revision:00		
	Revision Date: 07/01/2022		
	Last Edits BY: JENA Murray		
	Approval: Jena Murray		
Approval Date: 07/05/2022			

PRODUCT INFO			
PRODUCT NAME	Vena Full Spectrum Lights Out High Potency Sleep Gummy, Blackberry, 50mgCBD/5mgTHC, 30ct	ITEM Number	9244087570025852
Lot Number	2238A1F34	Amount Per Bottle:	30ct
Expiration Date:	02/2024	Storage Recommendation:	Room Temperature, away from light.

PHYSICAL QUALITIES			
STRENGTH	50mg CBD/5mg THC per gummy	COLOR	Purple sugar coated
SIZE	30ct	ODOR	Fruity
ADDITIONAL INFO	n/a	FLAVOR	Blackberry

Test Performed:	PASS / FAIL
Potency:	PASS
Heavy Metals:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
Residual Solvents:	PASS
Listeria Monocytogenes:	PASS
Pathogens:	PASS

Test Performed	Method	Specification	Result	Pass/Fail
L-Theanine	LCMS	≥100mg / gummy	Pass	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBD	LCVU / HPLC	≥50mg / gummy	55.250mg / gummy	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
THC	LCVU / HPLC	≥5mg / gummy	5.020mg / gummy	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Additional Minor Cannabinoids*	LCVU / HPLC	≥3mg / gummy	4.76mg / gummy	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Melatonin	LCMS	≥3mg / gummy	Pass	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Arsenic	ICP-MS	≤ 1500ppb	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cadmium	ICP-MS	≤ 500ppb	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Lead	ICP-MS	≤ 500ppb	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Mercury	ICP-MS	≤ 3000ppb	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Aflatoxin B1	LCMS	≤ 20 ppb	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Aflatoxin G1	LCMS	≤ 20 ppb	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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Test Performed	Method	Specification	Result	Pass/Fail
Ochratoxin A	LCMS	≤ 20 ppb	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
E. Coli	USP2022	Absent	Absent	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Salmonella	USP2022	Absent	Absent	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	qPCR	Absent	Absent	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Listeria Monocytogenes	qPCR	Absent	Absent	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Full Pesticide Panel (see attached results for each tested)	LCMS / GCMS	See attached results for Specification of each Pesticide tested	See attached	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Residual Solvents (see attached results for each tested)	GCMS	See attached results for Specification of each Residual Solvent tested	See attached	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

NOTES:

n/a 09/07/2022 JLM

Released:

APPROVED

By Jena Murray at 9:43 am, Sep 07, 2022

Quality Assurance:

Date:

09/07/2022



Certificate of Analysis

Compliance Test

Vena CBD
9805 RESEARCH DR
IRVINE, CA 92618

Batch # 2238A1F34
Batch Date: 2022-08-30
Extracted From: Full Spectrum

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # VEN220830-010001
Order Date: 2022-08-30
Sample # AADI478

Sampling Date: 2022-09-01
Lab Batch Date: 2022-09-01
Completion Date: 2022-09-06

Initial Gross Weight: 171.900 g
Net Weight: 139.056 g

Number of Units: 1
Net Weight per Unit: 4485.677 mg



Product Image

Potency Tested	Theanine-Caffeine-Melatonin Tested	Terpenes Tested	Heavy Metals Passed	Mycotoxins Passed
Pesticides Passed	Residual Solvents Passed	Pathogenic Microbiology Passed	Listeria Monocytogenes Passed	

Potency 10
Specimen Weight: 1511.800 mg

Tested
SOP13.001 (LCUV)

Potency Summary

Total Active THC 0.112% 5.020mg	Total Active CBD 1.232% 55.250mg
Total CBG 0.071% 3.180mg	Total CBN 0.018% 0.810mg
Other Cannabinoids 0.041% 1.840mg	Total Cannabinoids 1.474% 66.120mg

Pieces For Panel: 31

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	100.000	5.40E-5	0.0015	12.2900	1.2290
Delta-9 THC	100.000	1.30E-5	0.0015	1.1200	0.1120
CBG	100.000	2.48E-4	0.0015	0.7100	0.0710
CBC	100.000	1.80E-5	0.0015	0.3300	0.0330
CBN	100.000	1.40E-5	0.0015	0.1800	0.0180
CBDV	100.000	6.50E-5	0.0015	0.0800	0.0080
CBDA	100.000	1.00E-5	0.0015	0.0300	0.0030
THCA	100.000	8.00E-5	0.0015	<LOQ	<LOQ
THCV	100.000	3.20E-5	0.0015	<LOQ	<LOQ
THCV	100.000	7.00E-6	0.0015	<LOQ	<LOQ

Terpenes Summary

Analyte	Result (mg/g)	(%)
(R)-(+)-Limonene	0.755	0.076%
Borneol	0.065	0.007%
alpha-Bisabolol	0.046	0.005%
Gamma-Terpinene	0.04	0.004%
Linalool	0.031	0.003%

Total Terpenes: 0.095%

Detailed Terpenes Analysis is on the following page

Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta 8a-THC + Delta 8-THC + Total CBN + CBT + Delta 8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta 10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 10%

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Vena 50mgCBD/5mgTHC Full Spectrum
Lights Out High Potency Sleep Blackberry
Gummy 30ct
Sample Matrix:
CBD/HEMP
Edibles
(Infused)



DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

Vena CBD
9805 RESEARCH DR
IRVINE, CA 92618

Batch # 2238A1F34
Batch Date: 2022-08-30
Extracted From: Full Spectrum

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # VEN220830-010001
Order Date: 2022-08-30
Sample # AADI478

Sampling Date: 2022-09-01
Lab Batch Date: 2022-09-01
Completion Date: 2022-09-06

Initial Gross Weight: 171.900 g
Net Weight: 139.056 g

Number of Units: 1
Net Weight per Unit: 4485.677 mg



Pesticides FL V4

Specimen Weight: 256.200 mg

Dilution Factor: 5.850

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result
Abamectin	2.8800E-1	28.23	300	<LOQ	Fludioxonil	1.7400E+0	48	3000	<LOQ
Acephate	2.3000E-2	30	3000	<LOQ	Hexythiazox	4.9000E-2	30	2000	<LOQ
Acequinocyl	9.5640E+0	48	2000	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	3000	<LOQ	Imidacloprid	9.4000E-2	30	3000	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	1000	<LOQ
Azoxystrobin	8.1000E-2	10	3000	<LOQ	Malathion	8.2000E-2	30	2000	<LOQ
Bifenazate	1.4150E+0	30	3000	<LOQ	Metalaxyl	8.1000E-2	10	3000	<LOQ
Bifenthrin	4.3000E-2	30	500	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	3000	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	3000	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	Myclobutanil	1.0290E+0	30	3000	<LOQ
Chlorantraniliprole	3.3000E-2	10	3000	<LOQ	Naled	9.5000E-2	30	500	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Paclitaxel	6.5000E-2	30	100	<LOQ
Chloromequat Chloride	1.0800E-1	10	3000	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	200	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Permethrin	3.4300E-1	30	1000	<LOQ
Clofentezine	1.1900E-1	30	500	<LOQ	Phosmet	8.2000E-2	30	200	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cyfluthrin	3.1100E+0	30	1000	<LOQ	Prallethrin	7.9800E-1	30	400	<LOQ
Cypermethrin	1.4490E+0	30	1000	<LOQ	Propiconazole	7.0000E-2	30	1000	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	200	<LOQ	Pyrethrins	2.3593E+1	30	1000	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyridaben	3.2000E-2	30	3000	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Spinetoram	8.0000E-2	10	3000	<LOQ
Dimethomorph	5.8300E+0	48	3000	<LOQ	Spinosad	8.8000E-2	30	3000	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	3000	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spirotetramat	8.9000E-2	30	3000	<LOQ
Etoxazole	9.5000E-2	30	1500	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenhexamid	5.1000E-1	10	3000	<LOQ	Tebuconazole	6.7000E-2	30	1000	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	2000	<LOQ	Thiamethoxam	5.0000E-2	30	1000	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	3000	<LOQ
Flonicamid	5.1700E-1	30	2000	<LOQ					

Passed
SOP13.007
(LCMS/GCMS)



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1037.350 mg

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus terreus	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g



Listeria Monocytogenes

Specimen Weight: 1000.080 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1g

Passed
SOP13.019
(Micro Array)

Passed
SOP13.032
(qPCR)

Xueli Gao
Ph.D., DABT
Lab Toxicologist

Aixia Sun
D.H.Sc., M.Sc., B.Sc., MT (AAB)
Lab Director/Principal Scientist



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DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

Vena CBD
9805 RESEARCH DR
IRVINE, CA 92618

Batch # 2238A1F34
Batch Date: 2022-08-30
Extracted From: Full Spectrum

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # VEN220830-010001
Order Date: 2022-08-30
Sample # AADI478

Sampling Date: 2022-09-01
Lab Batch Date: 2022-09-01
Completion Date: 2022-09-06

Initial Gross Weight: 171.900 g
Net Weight: 139.056 g

Number of Units: 1
Net Weight per Unit: 4485.677 mg



Terpenes

Specimen Weight: 1511.800 mg

Tested

SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(R)-(+)-Limonene	0.002	0.755	0.076	Farnesene	0.002	<LOQ	<LOQ
Borneol	0.004	0.065	0.007	Fenchone	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	0.046	0.005	Fenchyl Alcohol	0.002	<LOQ	<LOQ
Gamma-Terpinene	0.002	0.040	0.004	Geraniol	0.002	<LOQ	<LOQ
Linalool	0.002	0.031	0.003	Geranyl acetate	0.002	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ		Guaiol	0.002	<LOQ	<LOQ
3-Carene	0.002	<LOQ		Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Cedrene	0.002	<LOQ		Isoborneol	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	<LOQ		Isopulegol	0.002	<LOQ	<LOQ
alpha-Phellandrene	0.002	<LOQ		Nerol	0.002	<LOQ	<LOQ
alpha-Pinene	0.002	<LOQ		Ocimene	0.00033	<LOQ	<LOQ
alpha-Terpinene	0.002	<LOQ		Pulegone	0.002	<LOQ	<LOQ
beta-Myrcene	0.002	<LOQ		Sabinene	0.002	<LOQ	<LOQ
beta-Pinene	0.002	<LOQ		Sabinene Hydrate	0.002	<LOQ	<LOQ
Camphene	0.002	<LOQ		Terpinolene	0.002	<LOQ	<LOQ
Camphors	0.006	<LOQ		Total Terpeneol	0.00126	<LOQ	<LOQ
Caryophyllene oxide	0.002	<LOQ		trans-Caryophyllene	0.002	<LOQ	<LOQ
cis-Nerolidol	0.002	<LOQ		trans-Nerolidol	0.002	<LOQ	<LOQ
Eucalyptol	0.002	<LOQ		Valencene	0.002	<LOQ	<LOQ

Total Terpenes: 0.095%



Mycotoxins

Specimen Weight: 256.200 mg

Passed

SOP13.007 (LCMS)

Dilution Factor: 5.850

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	12	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

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Sampling Date: 2022-09-01
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Completion Date: 2022-09-06

Initial Gross Weight: 171.900 g
Net Weight: 139.056 g

Number of Units: 1
Net Weight per Unit: 4485.677 mg



Residual Solvents - FL (CBD)

Specimen Weight: 12.400 mg

Passed
SOP13.039 (GCMS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.0094	0.16	8	<LOQ	Heptane	0.0013	1.39	5000	<LOQ
1,2-Dichloroethane	0.0003	0.04	5	<LOQ	Hexane	0.068	1.17	290	<LOQ
Acetone	0.015	2.08	5000	<LOQ	Isopropyl alcohol	0.0048	1.39	500	<LOQ
Acetonitrile	0.06	1.17	410	<LOQ	Methanol	0.0005	0.69	3000	8.625
Benzene	0.0002	0.02	2	<LOQ	Methylene chloride	0.0029	2.43	600	<LOQ
Butanes	0.4167	2.5	2000	<LOQ	Pentane	0.037	2.08	5000	<LOQ
Chloroform	0.0001	0.04	60	<LOQ	Propane	0.031	5.83	2100	<LOQ
Ethanol	0.0021	2.78	5000	<LOQ	Toluene	0.0009	2.92	890	<LOQ
Ethyl Acetate	0.0012	1.11	5000	<LOQ	Total Xylenes	0.0001	2.92	2170	<LOQ
Ethyl Ether	0.0049	1.39	5000	<LOQ	Trichloroethylene	0.0014	0.49	80	<LOQ
Ethylene Oxide	0.0038	0.1	5	<LOQ					



Theanine-Caffeine-Melatonin

Specimen Weight: 82.870 mg

Tested
SOP13.049 (LCMS)

Dilution Factor: 1.000

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Total/Piece (mg)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Total/Piece (mg)
Caffeine	0.00000178	0.00025	0	0		Melatonin	0.00000038	0.00025	0.70300	0.0703	3.15343122626
L-theanine	0.00000163	0.00025	24.30000	2.43	109.001961306						



Heavy Metals

Specimen Weight: 246.400 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 202

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	500	<LOQ	Mercury (Hg)	.58	100	3000	<LOQ

Xueli Gao
Ph.D., DABT
Lab Toxicologist

Aixia Sun
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Lab Director/Principal Scientist



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta 8-THC + Delta 9-THC + Total CBN + CBT + Delta 8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta 10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration, (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 10%

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