Sativa Testing Laboratories LLC
10501 Trade Court
N. Chesterfield, VA 23236
Phone: 804-220-1122

Certificate of Analysis

Client Name: Wunderkind
Sample ID: SAM-2023-3561
Sample Name: Tincture GEL 3375
Sample Matrix: Oil
Sample Type: Edible (oil, tincture)
Sample Received: 09/25/2023

Cannabinoids

Sample ID: SAM-2023-3561
Instrument: HPLC-UV/Vis

Date Completed: 09/28/2023
Method: HP001/HP003

Analyst: D N
Unit Size: 1 bottle, 1 oz

Cannabinoid	Result (%)	Result (mg/unit)	LOQ (mg/unit)
CBDVA	0.01	3	2.83
CBDV	0.13	38	2.83
CBDA	0.12	33	2.83
CBGA	<LOQ	<LOQ	2.83
CBG	0.14	39	2.83
CBD	11.54	3270	2.83
THCV	<LOQ	<LOQ	2.83
THCVA	<LOQ	<LOQ	2.83
CBN	0.06	17	2.83
Δ9-THC	0.24	69	2.83
Δ8-THC	<LOQ	<LOQ	2.83
CBC	0.37	105	2.83
THCA	<LOQ	<LOQ	2.83
CBCA	<LOQ	<LOQ	2.83
Total THC	0.24	69	-
Total CBD	11.64	3299	-
Total Cannabinoids	12.69	3598	-

LOQ= Limit of quantitation, NR = Not reported
Total THC = THCa * 0.877 + d9-THC + d8-THC, Total CBD = CBDa * 0.877 + CBD, Measurement Uncertainty for Total THC at 0.3% is ± 0.04%

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Certificate of Analysis

Terpenes

Sample ID: SAM-2023-3561
Instrument: HS-GC/MS

Date Completed: 09/29/2023
Method: HP002

Analyst: J D

Terpene	Result (mg/g)	Result (%)	LOQ (mg/g)
α-Pinene	<LOQ	<LOQ	0.20
Camphene	<LOQ	<LOQ	0.20
β-Myrcene	<LOQ	<LOQ	0.20
β-Pinene	2.53	0.25	0.20
3-Carene	<LOQ	<LOQ	0.20
α-Terpinene	4.14	0.41	0.20
δ-Limonene	<LOQ	<LOQ	0.20
p-Cymene	0.44	0.04	0.20
Eucalyptol	<LOQ	<LOQ	0.20
trans-β-Ocimene	<LOQ	<LOQ	0.20
y-Terpinene	<LOQ	<LOQ	0.20
Terpinolene	2.58	0.26	0.20
Linalool	0.56	0.06	0.20
Isopulegol	1.30	0.13	0.20
Geraniol	<LOQ	<LOQ	0.20
β-Caryophyllene	23.82	2.38	0.20
α-Humulene	5.60	0.56	0.20
cis-Nerolidol	<LOQ	<LOQ	0.20
trans-Nerolidol	0.53	0.05	0.20
Caryophyllene-Oxide	0.65	0.06	0.20
Guaiol	0.58	0.06	0.20
α-Bisabolol	1.06	0.11	0.20

LOQ= Limit of quantitation, NR = Not reported

Residual Solvents

Sample ID: SAM-2023-3561
Instrument: HS-GC/MS

Date Completed:
Method: HP002

Analyst: J D

Residual Solvent	Result (ppm)	LOQ (ppm)
Methanol	<LOQ	10
n-Pentane	<LOQ	10
Ethanol	<LOQ	10
Acetone	<LOQ	10
Isopropanol	<LOQ	10
Acetonitrile	<LOQ	10
n-Hexane	<LOQ	10
Tetrahydrofuran	<LOQ	10
Chloroform	<LOQ	10
Carbon-Tetrachloride	<LOQ	10
Benzene	<LOQ	10
Heptane	<LOQ	10
Toluene	<LOQ	10
p+m Xylene	<LOQ	10
o-Xylene	<LOQ	10

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Certificate of Analysis

Heavy Metals

Sample ID: SAM-2023-3561
Instrument: ICP-MS

Date Completed: 10/05/2023
Method: HP008

Analyst:

Heavy Metals	Result (ppm)	LOQ (ppm)
Arsenic	<LOQ	0.500
Cadmium	<LOQ	0.500
Lead	<LOQ	1.250
Mercury	<LOQ	0.250

LOQ= Limit of quantitation, NR = Not reported
Comments: Heavy Metals results from external provider.

Microbial Impurities

Sample ID: SAM-2023-3561
Instrument: Culture and qPCR
Date TAMC Read: 09/27/2023

Date Completed: 10/03/2023
Method: HP100/101
Date TYMC: 10/02/2023

Analyst: C M
Sample Amount: 1.00 g
Date qPCR Read: 09/27/2023

Microbials	Result (CFU/g)	Analytical Sensitivity (CFU/g)
Aerobic Microbials (TAMC)	ND	10
Yeast & Mold (TYMC)	ND	10
E.coli	ND	--

LOQ= Limit of quantitation, NR = Not reported, ND = Not detected
TNTC = Too numerous to count, CFU = Colony forming units

Mycotoxins

Sample ID: SAM-2023-3561
Instrument: LC-MS/MS

Date Completed:
Method: HP001/HP004

Analyst: J D

Mycotoxins	Result (ppb)	LOQ (ppb)
Aflatoxin B1	<LOQ	20.0
Aflatoxin B2	<LOQ	20.0
Aflatoxin G1	<LOQ	20.0
Aflatoxin G2	<LOQ	20.0

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Pesticides

Sample ID: SAM-2023-3561
Instrument: LC-MS/MS

Date Completed:
Method: HP001/HP004

Analyst: J D

Pesticide	Result (ppb)	LOQ (ppb)
Daminozide	<LOQ	100.00
Acephate	<LOQ	100.00
Oxamyl	<LOQ	100.00
Methomyl	<LOQ	100.00
Thiamethoxam	<LOQ	100.00
Imidacloprid	<LOQ	100.00
Dimethoate	<LOQ	100.00
Acetamiprid	<LOQ	100.00
Thiacloprid	<LOQ	100.00
Aldicarb	<LOQ	100.00
Dichlorvos	<LOQ	100.00
Carbofuran	<LOQ	100.00
Carbaryl	<LOQ	100.00
Metalaxyl	<LOQ	100.00
Chlorantraniliprole	<LOQ	100.00
Methiocarb	<LOQ	100.00
Azoxystrobin	<LOQ	100.00
Malathion	<LOQ	100.00
Bifenazate	<LOQ	100.00
Ethoprophos	<LOQ	100.00
Kresoxim-methyl	<LOQ	100.00
Diazinon	<LOQ	100.00
Spinosyn A	<LOQ	100.00
Trifloxystrobin	<LOQ	100.00
Spinosyn D	<LOQ	100.00
Piperonyl Butoxide	<LOQ	100.00
Hexythiazox	<LOQ	100.00
Etoxazole	<LOQ	100.00
Pyrethrin 1	<LOQ	100.00
Cypermethrin	ND	-
Fenpyroximate	<LOQ	100.00
Pyridaben	<LOQ	100.00
Abamectin	<LOQ	100.00
Etofenprox	<LOQ	100.00
Bifenthrin	<LOQ	100.00

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Jimmy Dodsworth,
Laboratory Director

10/12/2023

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