



Client Name: Wunderkind

Sample ID: SAM-2023-3554

Sample Name: Tincture OGK 1845

Sample Matrix: Oil

Sample Type: Edible (oil, tincture)

Sample Received: 09/22/2023

Cannabinoids

Sample ID: SAM-2023-3554
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	<LOQ	<LOQ	2.83
CBDV	0.07	19	2.83
CBDA	0.06	16	2.83
CBGA	<LOQ	<LOQ	2.83
CBG	0.07	20	2.83
CBD	5.12	1452	2.83
THCV	<LOQ	<LOQ	2.83
THCVA	<LOQ	<LOQ	2.83
CBN	0.94	267	2.83
Δ9-THC	0.13	38	2.83
Δ8-THC	<LOQ	<LOQ	2.83
CBC	0.18	51	2.83
THCA	<LOQ	<LOQ	2.83
CBCA	<LOQ	<LOQ	2.83
Total THC	0.13	38	-
Total CBD	5.17	1466	-
Total Cannabinoids	6.60	1871	-

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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Terpenes

Sample ID: SAM-2023-3554
Instrument: HS-GC/MS

Date Completed: 09/29/2023
Method: HP002

Analyst: J D

Terpene	Result (mg/g)	Result (%)	LOQ (mg/g)
α-Pinene	1.56	0.16	0.20
Camphene	<LOQ	<LOQ	0.20
β-Myrcene	3.97	0.40	0.20
β-Pinene	7.67	0.77	0.20
3-Carene	0.50	0.05	0.20
α-Terpinene	0.61	0.06	0.20
δ-Limonene	<LOQ	<LOQ	0.20
p-Cymene	16.08	1.61	0.20
Eucalyptol	<LOQ	<LOQ	0.20
trans-β-Ocimene	<LOQ	<LOQ	0.20
γ-Terpinene	0.61	0.06	0.20
Terpinolene	<LOQ	<LOQ	0.20
Linalool	6.33	0.63	0.20
Isopulegol	<LOQ	<LOQ	0.20
Geraniol	<LOQ	<LOQ	0.20
β-Caryophyllene	8.19	0.82	0.20
α-Humulene	2.15	0.22	0.20
cis-Nerolidol	<LOQ	<LOQ	0.20
trans-Nerolidol	0.41	0.04	0.20
Caryophyllene-Oxide	0.42	0.04	0.20
Guaiol	0.50	0.05	0.20
α-Bisabolol	0.65	0.07	0.20

LOQ= Limit of quantitation, NR = Not reported

Residual Solvents

Sample ID: SAM-2023-3554
Instrument: HS-GC/MS

Date Completed: 10/12/2023
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

LOQ= Limit of quantitation, NR = Not reported

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Heavy Metals

Sample ID: SAM-2023-3554
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-2023-3554
Instrument: Culture and qPCR
Date TAMC Read: 09/25/2023

Date Completed: 09/29/2023
Method: HP100/101
Date TYMC: 09/27/2023

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)	10	10
Yeast & Mold (TYMC)	10	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-2023-3554
Instrument: LC-MS/MS

Date Completed: 10/12/2023
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-2023-3554
Instrument: LC-MS/MS

Date Completed: 10/12/2023
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

LOQ= Limit of quantitation, NR = Not reported

Jimmy Dodsworth,
Laboratory Director



10/12/2023