



**Client Name:** Wunderkind

**Sample ID:** SAM-2023-3556

**Sample Name:** Tincture SLH 1845

**Sample Matrix:** Oil

**Sample Type:** Edible (oil, tincture)

**Sample Received:** 09/22/2023

## Cannabinoids

**Sample ID:** SAM-2023-3556  
**Instrument:** HPLC-UV/Vis

**Date Completed:** 09/29/2023  
**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	0.06	18	2.83
CBDA	0.05	15	2.83
CBGA	<LOQ	<LOQ	2.83
CBG	0.96	272	2.83
CBD	5.09	1444	2.83
THCV	<LOQ	<LOQ	2.83
THCVA	<LOQ	<LOQ	2.83
CBN	0.03	8	2.83
Δ9-THC	0.14	38	2.83
Δ8-THC	<LOQ	<LOQ	2.83
CBC	0.18	50	2.83
THCA	<LOQ	<LOQ	2.83
CBCA	<LOQ	<LOQ	2.83
Total THC	0.14	38	-
Total CBD	5.14	1458	-
Total Cannabinoids	6.54	1855	-

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-2023-3556  
**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	2.41	0.24	0.20
3-Carene	<LOQ	<LOQ	0.20
α-Terpinene	4.03	0.40	0.20
δ-Limonene	<LOQ	<LOQ	0.20
p-Cymene	0.40	0.04	0.20
Eucalyptol	<LOQ	<LOQ	0.20
trans-β-Ocimene	<LOQ	<LOQ	0.20
γ-Terpinene	<LOQ	<LOQ	0.20
Terpinolene	2.55	0.26	0.20
Linalool	<LOQ	<LOQ	0.20
Isopulegol	1.30	0.13	0.20
Geraniol	<LOQ	<LOQ	0.20
β-Caryophyllene	20.66	2.07	0.20
α-Humulene	4.68	0.47	0.20
cis-Nerolidol	<LOQ	<LOQ	0.20
trans-Nerolidol	0.41	0.04	0.20
Caryophyllene-Oxide	0.37	0.04	0.20
Guaiol	0.37	0.04	0.20
α-Bisabolol	0.50	0.05	0.20

LOQ= Limit of quantitation, NR = Not reported

## Residual Solvents

**Sample ID:** SAM-2023-3556  
**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-2023-3556  
**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-2023-3556  
**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:** 0.99 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-2023-3556  
**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-2023-3556  
**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

LOQ= Limit of quantitation, NR = Not reported

Jimmy Dodsworth,  
Laboratory Director



10/12/2023