

# Product Development (R&D)

Report Published: 06/14/2022

**Client Name:** Supernatural Biosciences  
LLC**Address:** 939 W Lake St. Chicago, IL.  
60607**Phone:** N/A**Certificate Number:** 4939**License Number:** N/A**Sample Description:** KRLT1K0522-01 Relief Full Spectrum**Batch ID:** None**Sample ID:** 23-2206-19**Sampling Method:** SOP-SMPL-003**Sample Type:** Oil**Sampling Date:** 06/09/2022

## Results Summary

### Potency

✓ TESTED

**Date Analyzed:** 06/10/2022**Method Used:**  
SOP\_CANN\_001

### Terpenes

✓ TESTED

**Date Analyzed:** 06/10/2022**Method Used:**  
SOP\_TERP\_001

**Potency**
 **TESTED**
**Date Analyzed:** 06/10/2022  
**Instrument:** Agilent 1260 HPLC

**Date Completed:** 06/14/2022  
**Lab Tech:** Landen Nickel

**Moisture Content (%):** 0  
**Unit Size (g):** 1

Cannabinoid	Result (%)	Result (mg/g)	Result (mg/unit)	Result (mg/package)	LOD (%)	LOQ (%)	Relative Abundance
CBDVA	ND	ND	ND	ND	0.0500	0.1000	
CBDV	ND	ND	ND	ND	0.0500	0.1000	
CBDA	ND	ND	ND	ND	0.0500	0.1000	
CBD	3.548	35.484	35.484	993.552	0.0500	0.1000	<div></div>
THCVA	ND	ND	ND	ND	0.0500	0.1000	
THCV	ND	ND	ND	ND	0.0500	0.1000	
THCA	ND	ND	ND	ND	0.0500	0.1000	
Δ9 THC	0.149	1.491	1.491	41.748	0.0500	0.1000	<div></div>
Δ8 THC	ND	ND	ND	ND	0.0500	0.1000	
CBN	ND	ND	ND	ND	0.0500	0.1000	
CBCA	ND	ND	ND	ND	0.0500	0.1000	
CBC	0.151	1.510	1.510	42.291	0.0500	0.1000	<div></div>
CBGA	ND	ND	ND	ND	0.0500	0.1000	
CBG	0.354	3.542	3.542	99.183	0.0500	0.1000	<div></div>
<b>Total THC</b>	<b>0.149</b>	<b>1.491</b>	<b>1.491</b>	<b>41.748</b>			
<b>Total CBD</b>	<b>3.248</b>	<b>32.484</b>	<b>32.484</b>	<b>993.582</b>			
<b>Total Cannabinoids</b>	<b>3.754</b>	<b>37.536</b>	<b>37.536</b>	<b>1134.483</b>			

**Total THC %** = (THC% + (THCA% x 0.877)) / (1 - (THCA% + CBDA% + CBGA%) x 0.123)

**Total CBD %** = (CBD% + (CBDA% x 0.877)) / (1 - (THCA% + CBDA% + CBGA%) x 0.123)

**Total Cannabinoids** = Sum of all cannabinoids without THC/CBD corrections.

**LOD** = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

The reported result for each analyte includes a moisture content correction equal to: Base% / (1 - Moisture%)

Relative Abundance represents the percentage of each analyte compared with the total cannabinoid content.

## Terpenes

 **TESTED**

**Date Analyzed:** 06/10/2022  
**Instrument:** Agilent 6890 GC-FID

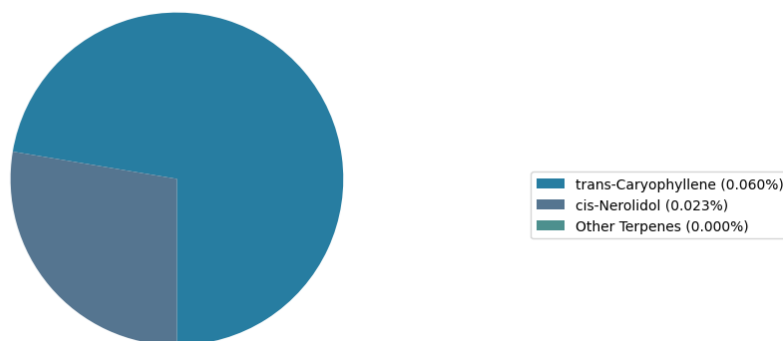
**Date Completed:** 06/14/2022  
**Lab Tech:** Landen Nickel

**Moisture Content (%):** 0

Terpene	Result (%)	LOD (%)	LOQ (%)
Camphene	ND	0.0181	0.0318
α-Pinene	ND	0.0181	0.0318
β-pinene	ND	0.0181	0.0318
β-myrcene	ND	0.0181	0.0318
(1S)-(+)-3-Carene	ND	0.0181	0.0318
α-Terpinene	ND	0.0181	0.0318
Limonene	ND	0.0181	0.0318
β-Ocimene	ND	0.0130	0.0229
Eucalyptol	ND	0.0181	0.0318
γ-Terpinene	ND	0.0181	0.0318

Terpene	Result (%)	LOD (%)	LOQ (%)
Terpinolene	ND	0.0181	0.0318
Linalool	ND	0.0181	0.0318
Geraniol	ND	0.0181	0.0318
trans-Caryophyllene	0.060	0.0181	0.0318
α-Humulene	ND	0.0181	0.0318
cis-Nerolidol	0.023	0.0074	0.0131
trans-Nerolidol	ND	0.0106	0.0188
Caryophyllene Oxide	ND	0.0181	0.0318
Guaiol	ND	0.0181	0.0318
α-Bisabolol	ND	0.0181	0.0318
<b>Total Terpene Content</b>	<b>0.083</b>		

**Terpene Distribution (% of Terpenes by Weight)**



--- END OF REPORT ---

## Pesticides

 **TESTED**
**Date Analyzed:** 06/11/2022

**Instrument:** Agilent 1290 Infinity II LC/Ulivo TQMS

**Date Completed:** 06/16/2022

**Lab Tech:** Landen Nickel

Pesticide	Result (ppb)	LOD (ppb)	LOQ (ppb)
Acephate	ND	10.0000	50.0000
Acequinocyl	ND	5.0000	10.0000
Acetamiprid	ND	1.0000	5.0000
Aldicarb	ND	5.0000	10.0000
Azoxystrobin	ND	0.5000	1.0000
Bifenazate	ND	0.5000	1.0000
Bifenthrin	ND	5.0000	5.0000
Boscalid	ND	5.0000	10.0000
Carbaryl	ND	5.0000	5.0000
Carbofuran	ND	0.5000	1.0000
Chlorantraniliprole	ND	10.0000	50.0000
Chlorpyrifos	ND	5.0000	5.0000
Chlofentezine	ND	5.0000	10.0000
Coumaphos	ND	5.0000	5.0000
Daminozide	ND	5.0000	50.0000
Diazinon	ND	0.5000	1.0000
Dimethomorph I	ND	5.0000	5.0000
Dimethomorph II	ND	1.0000	5.0000
Ethoprophos	ND	1.0000	5.0000
Etofenprox	ND	1.0000	1.0000
Etoxazole	ND	0.5000	1.0000
Fenhexamid	ND	5.0000	10.0000
Fenoxycarb	ND	0.5000	1.0000
Fenpyroximate	ND	0.5000	1.0000
Fipronil	ND	5.0000	5.0000
Flonicamid	ND	1.0000	5.0000

Pesticide	Result (ppb)	LOD (ppb)	LOQ (ppb)
Fludioxonil	ND	5.0000	5.0000
Hexythiazox	ND	5.0000	5.0000
Imazalil	ND	5.0000	5.0000
Imidacloprid	ND	1.0000	5.0000
Kresoxim Methyl	ND	5.0000	5.0000
Metalaxyl	ND	0.5000	1.0000
Methiocarb	ND	5.0000	5.0000
Mevinphos	ND	5.0000	10.0000
Oxamyl I	ND	1.0000	5.0000
Paclobutrazol	ND	5.0000	5.0000
Permethrin	ND	5.0000	10.0000
Phosmet	ND	5.0000	5.0000
Piperonyl-butoxide	ND	0.5000	1.0000
Prallethrin	ND	5.0000	10.0000
Propiconazole	ND	5.0000	10.0000
Pyridaben	ND	0.5000	1.0000
Spinetoram J	ND	0.5000	1.0000
Spinetoram L	ND	5.0000	10.0000
Spinosyn A	ND	5.0000	5.0000
Spinosyn D	ND	5.0000	10.0000
Spiromesifen	ND	0.5000	1.0000
Spirotetramat	ND	5.0000	5.0000
Spiroxamine	ND	0.5000	1.0000
Tebuconazole	ND	5.0000	5.0000
Thiacloprid	ND	0.5000	1.0000
Thiamethoxym	ND	1.0000	5.0000
Trifloxystrobin	ND	0.5000	1.0000

## Mycotoxins

 **TESTED**
**Date Analyzed:** 06/11/2022

**Instrument:** Agilent 1290 Infinity II LC/Ulivo TQMS

**Date Completed:** 06/13/2022

**Lab Tech:** Landen Nickel

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)
Aflatoxin B1	ND	10.0000	20.0000
Aflatoxin B2	ND	10.0000	20.0000
Aflatoxin G1	ND	10.0000	20.0000
Aflatoxin G2	ND	10.0000	20.0000
Ochratoxin A	ND	20.0000	20.0000

## Residual Solvents

 **TESTED**
**Date Analyzed:** 06/07/2022

**Instrument:** HS-GC-MS

**Date Completed:** 06/14/2022

**Lab Tech:** Landen Nickel

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)
Propane	ND	17.1233	410.9590
Butane	ND	17.1233	410.9590
Methanol Ethylene	ND	17.1233	1232.8800
Oxide Pentane	ND	6.8493	6.8493
Ethanol	ND	17.1233	958.9040
Ethyl Ether	ND	17.1233	958.9040
Acetone Isopropyl	ND	17.1233	958.9040
Alcohol Methylene	ND	17.1233	958.9040
Isopropyl Alcohol	ND	17.1233	958.9040
Chloride Hexane	ND	246.5750	246.5750
Ethyl Acetate	ND	17.1233	119.1780
Heptane	ND	17.1233	958.9040
Trichloroethene	ND	17.1233	1917.8100
Toluene	ND	32.8767	32.8767
Total Xylenes	ND	17.1233	365.7530
	ND	17.1233	891.7810

## Heavy Metals

 **TESTED**
**Date Analyzed:** 06/07/2022

**Instrument:** Agilent 7800 ICP-MS

**Date Completed:** 06/14/2022

**Lab Tech:** Landen Nickel

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)
Lead	ND	0.7010	83.5000
Arsenic	ND	2.2540	83.5000
Cadmium	ND	1.1250	83.5000
Mercury	ND	4.1080	8.3500
Chromium	ND	6.1460	83.5000

## Foreign Matter TBD

 **TESTED**
**Date Analyzed:** 06/07/2022

**Instrument:** Euromex bScope Series Microscope

**Date Completed:** 06/\_\_\_/2022

**Lab Tech:** Landen Nickel

Foreign Materials	Result (perc. w/w)
Cinders	ND
Dirt	ND
Insect Fragments	ND
Mold	ND
Other	NT

**Microbial Impurities (Quantitative)** **TESTED****Date Analyzed:** 06/07/2022**Instrument:** 3M Petrifilm**Date Completed:** 06/10/2022**Lab Tech:** Christine Stouffer

Microbials (Quantitative)	Result (CFU/g)
Total Coliform Count	ND
Total BTGN Count	ND
Total Aerobic Content Count	ND
Total Yeast and Mold Count	ND

**TNTC** = Too numerous to count.**Microbial Impurities (Qualitative)** **TESTED****Date Analyzed:** 06/07/2022**Instrument:** 3M Petrifilm**Date Completed:** 06/10/2022**Lab Tech:** Christine Stouffer

Microbials (Qualitative)	Result
STEC	Not Detected
Salmonella Spp.	Not Detected

**TNTC** = Too numerous to count.