



## Preliminary Certificate of Analysis

R&D

**TERPLANDIA LLC**  
1271 EVERGREEN ROAD  
REDWAY, CA 95560

Batch # TLH006BR007  
Batch Date: 2021-01-06  
Extracted From: Cannabis

Test Reg State: Florida

Production Facility: Terplandia LLC  
Production Date: 2020-12-31

Order # TER210106-040027  
Order Date: 2021-01-06  
Sample # AAAW673

Sampling Date: 2021-01-12  
Lab Batch Date: 2021-01-12  
Completion Date: 2021-01-19

Initial Gross Weight: 20.480 g  
Density: 931 g/ml



Product Image



### Terpenes Summary

Analyte	Result (mg/ml)	(%)
beta-Myrcene	427.720	42.772%
alpha-Pinene	52.680	5.268%
trans-Caryophyllene	30.730	3.073%
(R)-(+)-Limonene	25.150	2.515%
Fenchyl Alcohol	1.470	0.147%
Caryophyllene oxide	0.850	0.085%
Valencene	0.790	0.079%
Sabinene Hydrate	0.670	0.067%
alpha-Humulene	0.650	0.065%
Terpineol	0.590	0.059%
Terpinolene	0.450	0.045%
Isoborneol	0.370	0.037%
(+)-Cedrol	0.280	0.028%
Geranyl acetate	0.240	0.024%
alpha-Terpinene	0.230	0.023%
alpha-Bisabolol	0.200	0.02%

**Total Terpenes: 54.441 %**

Detailed Terpene Analysis is on the following page

*Xueli Gao*      *Aixia Sun*

Xueli Gao  
Ph.D., DABT

Lab Toxicologist

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



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## Terpenes - FL

Specimen Weight: 37.700 mg

**Tested**  
(GC)

Dilution Factor: 1.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
beta-Myrcene	0.02	427.720	42.772	alpha-Pinene	0.02	52.680	5.268
trans-Caryophyllene	0.02	30.730	3.073	(R)-(+)-Limonene	0.02	25.150	2.515
Fenchyl Alcohol	0.02	1.470	0.147	Caryophyllene oxide	0.02	0.850	0.085
Valencene	0.02	0.790	0.079	Sabinene Hydrate	0.02	0.670	0.067
Farnesene	0.02	0.670	0.067	alpha-Humulene	0.02	0.650	0.065
Terpineol	0.02	0.590	0.059	Terpinolene	0.02	0.450	0.045
Isoborneol	0.02	0.370	0.037	(+)-Cedrol	0.02	0.280	0.028
Geranyl acetate	0.02	0.240	0.024	alpha-Terpinene	0.02	0.230	0.023
alpha-Bisabolol	0.02	0.200	0.020	Camphors	0.04		<LOQ
Nerol	0.02		<LOQ	trans-Nerolidol	0.02		<LOQ
3-Carene	0.02		<LOQ	alpha-Cedrene	0.02		<LOQ
alpha-Phellandrene	0.02		<LOQ	Sabinene	0.02		<LOQ
Pulegone	0.02		<LOQ	Ocimene	0.014		<LOQ
Isopulegol	0.02		<LOQ	Linalool	0.02		<LOQ
Camphene	0.02		<LOQ	Hexahydrothymol	0.02		<LOQ
Guaiaol	0.02		<LOQ	Geraniol	0.02		<LOQ
Gamma-Terpinene	0.02		<LOQ	beta-Pinene	0.02		<LOQ
Borneol	0.04		<LOQ	Eucalyptol	0.02		<LOQ
cis-Nerolidol	0.02		<LOQ	Fenchone	0.02		<LOQ

**Total Terpenes: 54.441%**

*Xueli Gao*  
 Xueli Gao  
 Lab Toxicologist  
 Ph.D., DABT

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



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721 Cortaro Dr.  
Sun City Center, FL 33573

License No. 800025015  
FL License # CMTL-0003  
CLIA No. 10D1094068

Terpenes  
Sample Matrix:  
CBD/HEMP  
Derivative Products  
(Inhalation - Heated)



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Density: 931 g/ml

**H Heavy Metals**

Specimen Weight: 123.040 mg

**Passed**  
(ICP-MS)

Dilution Factor: 2.000

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Cadmium (Cd)	100	500	<LOQ
Lead (Pb)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ
Total Contaminant Load (TCL)	None Detected						

*Xueli Gao*      *Aixia Sun*  
Xueli Gao      Lab Toxicologist      Aixia Sun  
Ph.D., DABT                Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

ACS



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## Pesticides FL V4 (Non-Inhalable)

Specimen Weight: 172.500 mg

**Passed**  
(LCMS/GCMS)

Dilution Factor: 8.696

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetamiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenazate	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Boscalid	10	3000	<LOQ	Captan	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlordane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chloromequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentezine	30	500	<LOQ
Coumaphos	48	100	<LOQ	Cyfluthrin	30	1000	<LOQ
Cypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	48	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	48	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Imazalil	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metaxyl	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Methomyl	30	100	<LOQ	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Paclobutrazol	30	100	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Permethrin	30	1000	<LOQ	Phosmet	30	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Prallethrin	30	400	<LOQ
Propiconazole	30	1000	<LOQ	Propoxur	30	100	<LOQ
Pyrethrins	30	1000	<LOQ	Pyridaben	30	3000	<LOQ
Spinetoram	10	3000	<LOQ	Spinosad	30	3000	<LOQ
Spiromesifen	30	3000	<LOQ	Spirotetramat	30	3000	<LOQ
Spiroxamine	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Thiacloprid	30	100	<LOQ	Thiamethoxam	30	1000	<LOQ
Trifloxystrobin	30	3000	<LOQ	Total Contaminant Load (TCL)	None Detected		

*Xuelli Gao*  
Xuelli Gao | Lab Toxicologist  
Ph.D., DABT

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 Xuelli Gao Lab Toxicologist  
 Ph.D., DABT

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### Flavonoids

Specimen Weight: 19.500 mg

Tested  
(LCMS)

Dilution Factor: 1.000

Analyte	Dilution (1:n)	LOQ (ppm)	Result (ppm)	Analyte	Dilution (1:n)	LOQ (ppm)	Result (ppm)
Apigenin	0.100	4	<LOQ	Baicalin	0.100	8	<LOQ
beta sitosterol	0.100	5	<LOQ	Cannflavin A	0.100	3.91	<LOQ
Cannflavin B	0.100	4.84	<LOQ	Cannflavin C	0.100	2.36	<LOQ
Chrysin	0.100	2.5	<LOQ	Fisetin	0.100	5	<LOQ
Kaempferol	0.100	1	<LOQ	Luteolin	0.100	2.5	<LOQ
Orientin	0.100	5	<LOQ	Quercetin	0.100	2.23	<LOQ
Rutin	0.100	7.81	<LOQ	Vitexin	0.100	4	<LOQ
Wogonin	0.100	0.5	<LOQ				

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