

Relief Broad Spectrum Hemp Extract

Overall Batch Result **PASS**



Total THC	Total CBD	Total Cannabinoids
ND per serving	100.04 mg per serving	105.46 mg per serving
ND per package	3001.20 mg per package	3163.80 mg per package

Batch
Lot / Batch: **RF042385**
Source UID: **N/A**
Package UID: **N/A**

Sample
Account: **Zogena LLC**
Sample ID: **4001625**
Sample Type: **Orally Consumed Cannabis**
Product - Volume
Sample Matrix: **Tincture**
Package Size: **30 mL**
Serving Size: **1 mL**
Received Date: **12/9/2021**
Completed Date: **12/14/2021**

Cannabinoids	PASS
Terpenes	TESTED
Heavy Metals	PASS
Residual Solvents	PASS
Microbials	NOT TESTED
Chemical Residues	PASS
Mycotoxins	PASS
Foreign Materials	NOT TESTED
Water Activity	NOT TESTED

Data Review
Mike Tunis
Mike Tunis
Laboratory Director
12/14/2021

Quality Review
Nicholas Chau
Nicholas Chau
Quality Assurance Manager
12/14/2021



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Cannabinoids Analysis

Instrument: IR-ALTUS01

Method: SOP-001:AnalysisOfCannabinoids

Accession Date: 12/9/2021

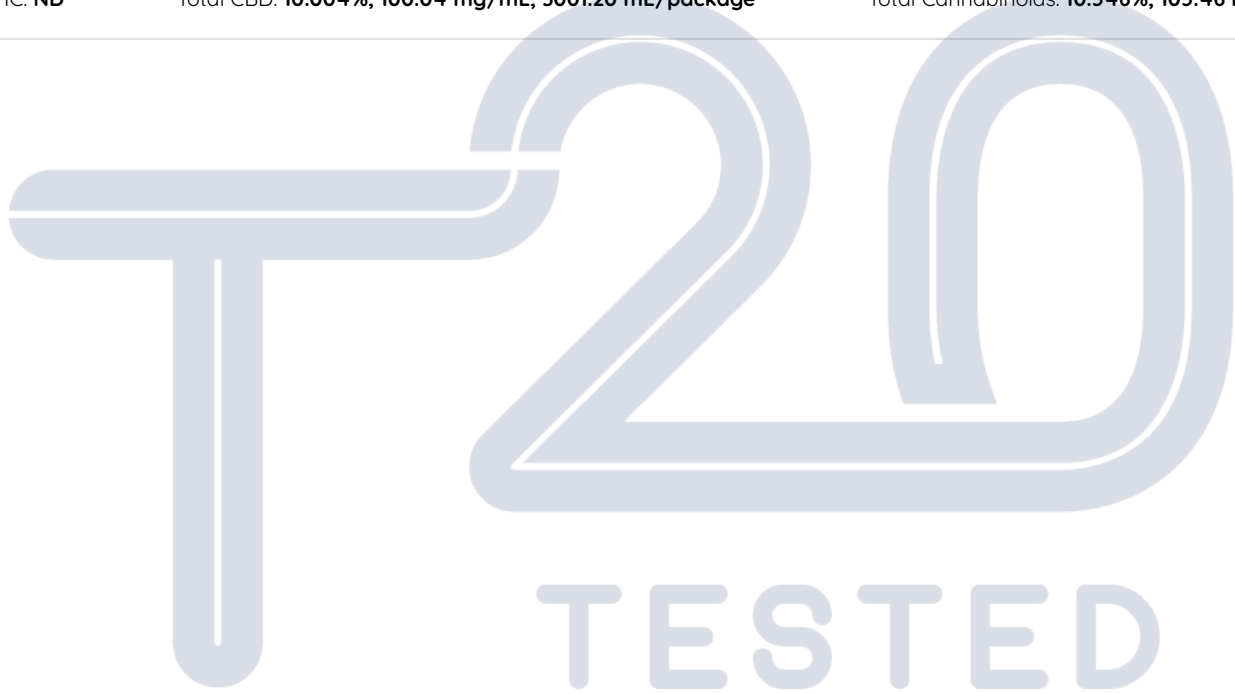
Panel Completed Date: 12/10/2021

Analyte	LOD	LOQ	Results	Results (%)	mg per Serving	mg per Package
CBD	0.000625 mg/mL	0.001250 mg/mL	99.87 mg/mL	9.987%	99.87 mg	2996.09 mg
CBG	0.000625 mg/mL	0.001250 mg/mL	3.41 mg/mL	0.341%	3.41 mg	102.20 mg
THCV	0.000313 mg/mL	0.000625 mg/mL	0.66 mg/mL	0.066%	0.66 mg	19.90 mg
CBN	0.000625 mg/mL	0.001250 mg/mL	0.55 mg/mL	0.055%	0.55 mg	16.39 mg
CBC	0.000625 mg/mL	0.001250 mg/mL	0.54 mg/mL	0.054%	0.54 mg	16.17 mg
CBDV	0.000313 mg/mL	0.000625 mg/mL	0.27 mg/mL	0.027%	0.27 mg	7.95 mg
CBDA	0.000313 mg/mL	0.000625 mg/mL	0.19 mg/mL	0.019%	0.19 mg	5.83 mg
THCA	0.000625 mg/mL	0.001250 mg/mL	ND	N/A	ND	ND
Δ9-THC	0.000625 mg/mL	0.005000 mg/mL	ND	N/A	ND	ND
Δ8-THC	0.000625 mg/mL	0.005000 mg/mL	ND	N/A	ND	ND
CBDVA	0.000313 mg/mL	0.000625 mg/mL	ND	N/A	ND	ND
CBGA	0.000313 mg/mL	0.000625 mg/mL	ND	N/A	ND	ND

Total THC: ND

Total CBD: **10.004%, 100.04 mg/mL, 3001.20 mL/package**

Total Cannabinoids: **10.546%, 105.46 mg/mL**



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Terpenes Analysis

Instrument: IR-CLARUS01

Method: SOP-002:AnalysisOfTerpenes

Accession Date: 12/9/2021

Panel Completed Date: 12/14/2021

Analyte	LOD	LOQ	Results	Results (%)
Limonene	0.004883 mg/mL	0.009766 mg/mL	3.32 mg/mL	0.332%
b-Pinene	0.004883 mg/mL	0.009766 mg/mL	0.63 mg/mL	0.063%
b-Myrcene	0.004883 mg/mL	0.009766 mg/mL	0.59 mg/mL	0.059%
γ-Terpinene	0.004883 mg/mL	0.009766 mg/mL	0.41 mg/mL	0.041%
Caryophyllene	0.004883 mg/mL	0.009766 mg/mL	0.24 mg/mL	0.024%
α-Bisabolol	0.009766 mg/mL	0.019530 mg/mL	0.15 mg/mL	0.015%
α-Pinene	0.004883 mg/mL	0.009766 mg/mL	0.07 mg/mL	0.007%
Ocimene	0.004883 mg/mL	0.009766 mg/mL	0.05 mg/mL	0.005%
Linalool	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
Isopulegol	0.009766 mg/mL	0.019530 mg/mL	ND	N/A
Eucalyptol	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
3-Carene	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
p-Cymene	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
α-Terpinene	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
α-Humulene	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
Terpinolene	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
Guaiol	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
Geraniol	0.009766 mg/mL	0.019530 mg/mL	ND	N/A
Caryophyllene Oxide	0.019530 mg/mL	0.039060 mg/mL	ND	N/A
Camphene	0.004883 mg/mL	0.009766 mg/mL	ND	N/A
Trans-Nerolidol	0.005566 mg/mL	0.011130 mg/mL	ND	N/A
Cis-Nerolidol	0.004199 mg/mL	0.008400 mg/mL	ND	N/A

Heavy Metals Analysis

PASS

Instrument: IR-NEXION01

Method: SOP-005:AnalysisOfHeavyMetals

Accession Date: 12/9/2021

Panel Completed Date: 12/13/2021

Analyte	LOD	LOQ	Action Limits	Results	Pass/Fail
Arsenic	0.000100 µg/mL	0.000400 µg/mL	1.500 µg/mL	0.1850 µg/mL	Pass
Lead	0.000100 µg/mL	0.000200 µg/mL	0.500 µg/mL	0.0819 µg/mL	Pass
Cadmium	0.000100 µg/mL	0.000200 µg/mL	0.500 µg/mL	0.0009 µg/mL	Pass
Mercury	0.000030 µg/mL	0.000100 µg/mL	3.000 µg/mL	ND	Pass



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Residual Solvents Analysis

PASS

Instrument: IR-CLARUS01

Method: SOP-004:AnalysisOfResidualSolvents

Accession Date: 12/9/2021

Panel Completed Date: 12/14/2021

Analyte	LOD	LOQ	Action Limits	Results	Pass/Fail
Ethyl Acetate	31.250 µg/mL	62.500 µg/mL	5000.000 µg/mL	ND	Pass
Isopropyl Alcohol	31.250 µg/mL	62.500 µg/mL	5000.000 µg/mL	ND	Pass
Methanol	31.250 µg/mL	62.500 µg/mL	3000.000 µg/mL	ND	Pass
Methylene Chloride	0.195 µg/mL	0.391 µg/mL	1.000 µg/mL	ND	Pass
Propane	31.250 µg/mL	62.500 µg/mL	5000.000 µg/mL	ND	Pass
Trichloroethylene	0.195 µg/mL	0.391 µg/mL	1.000 µg/mL	ND	Pass
Total Xylenes	39.063 µg/mL	78.125 µg/mL	2170.000 µg/mL	ND	Pass
Ethylene Oxide	0.195 µg/mL	0.391 µg/mL	1.000 µg/mL	ND	Pass
Chloroform	0.195 µg/mL	0.391 µg/mL	1.000 µg/mL	ND	Pass
Heptane	31.250 µg/mL	62.500 µg/mL	5000.000 µg/mL	ND	Pass
Butane	31.250 µg/mL	62.500 µg/mL	5000.000 µg/mL	ND	Pass
Toluene	31.250 µg/mL	62.500 µg/mL	890.000 µg/mL	ND	Pass
Acetone	31.250 µg/mL	62.500 µg/mL	5000.000 µg/mL	ND	Pass
Benzene	0.195 µg/mL	0.391 µg/mL	1.000 µg/mL	ND	Pass
Ethyl Ether	31.250 µg/mL	62.500 µg/mL	5000.000 µg/mL	ND	Pass
Acetonitrile	31.250 µg/mL	62.500 µg/mL	410.000 µg/mL	ND	Pass
Pentane	31.250 µg/mL	62.500 µg/mL	5000.000 µg/mL	ND	Pass
1, 2-Dichloroethane	0.195 µg/mL	0.391 µg/mL	1.000 µg/mL	ND	Pass
Ethanol	31.250 µg/mL	62.500 µg/mL	N/A	ND	N/A
Hexane	31.250 µg/mL	62.500 µg/mL	290.000 µg/mL	ND	Pass

Mycotoxins Analysis

PASS

Instrument: IR-QSIGHT02

Method: SOP-003:AnalysisOfPesticidesAndMycotoxins

Accession Date: 12/9/2021

Panel Completed Date: 12/14/2021

Analyte	LOD	LOQ	Action Limits	Results	Pass/Fail
Ochratoxin A	4.040 µg/L	10.100 µg/L	20.000 µg/L	ND	Pass
Aflatoxin B1	2.020 µg/L	4.040 µg/L	N/A	ND	Pass
Aflatoxin G2	2.020 µg/L	4.040 µg/L	N/A	ND	Pass
Total Aflatoxins	N/A	N/A	20.000 µg/L	ND	Pass
Aflatoxin B2	2.020 µg/L	4.040 µg/L	N/A	ND	Pass
Aflatoxin G1	2.020 µg/L	4.040 µg/L	N/A	ND	Pass



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Chemical Residue Analysis

PASS

Instrument: IR-QSIGHT02 Method: SOP-003:AnalysisOfPesticidesAndMycotoxins Accession Date: 12/9/2021 Panel Completed Date: 12/14/2021

Analyte	LOD	LOQ	Action Limits	Results	Pass/Fail
Naled	0.000372 µg/mL	0.001240 µg/mL	0.500 µg/mL	ND	Pass
Thiamethoxam	0.000639 µg/mL	0.002129 µg/mL	4.500 µg/mL	ND	Pass
Acequinocyl	0.000661 µg/mL	0.002204 µg/mL	4.000 µg/mL	ND	Pass
Cypermethrin	0.002624 µg/mL	0.008746 µg/mL	1.000 µg/mL	ND	Pass
Spiroxamine	0.000720 µg/mL	0.002401 µg/mL	0.000 µg/mL	ND	Pass
Propiconazole	0.000805 µg/mL	0.002682 µg/mL	20.000 µg/mL	ND	Pass
Thiachloprid	0.000201 µg/mL	0.000671 µg/mL	0.000 µg/mL	ND	Pass
Boscalid	0.000871 µg/mL	0.002902 µg/mL	10.000 µg/mL	ND	Pass
Acephate	0.000620 µg/mL	0.002066 µg/mL	5.000 µg/mL	ND	Pass
Spiromesifen	0.000933 µg/mL	0.003111 µg/mL	12.000 µg/mL	ND	Pass
Spirotetramat	0.001254 µg/mL	0.004179 µg/mL	13.000 µg/mL	ND	Pass
Carbofuran	0.000666 µg/mL	0.002220 µg/mL	0.000 µg/mL	ND	Pass
Fenoxycarb	0.000738 µg/mL	0.002460 µg/mL	0.000 µg/mL	ND	Pass
Ethoprophos	0.001154 µg/mL	0.003847 µg/mL	0.000 µg/mL	ND	Pass
Dichlorvos	0.000643 µg/mL	0.002142 µg/mL	0.000 µg/mL	ND	Pass
Fenpyroximate	0.000813 µg/mL	0.002710 µg/mL	2.000 µg/mL	ND	Pass
Bifenthrin	0.000887 µg/mL	0.002957 µg/mL	0.500 µg/mL	ND	Pass
Spinetoram	0.000650 µg/mL	0.002165 µg/mL	3.000 µg/mL	ND	Pass
Propoxur	0.000794 µg/mL	0.002648 µg/mL	0.000 µg/mL	ND	Pass
Permethrin	0.000844 µg/mL	0.002814 µg/mL	20.000 µg/mL	ND	Pass
Diazinon	0.001070 µg/mL	0.003566 µg/mL	0.200 µg/mL	ND	Pass
Piperonyl Butoxide	0.000690 µg/mL	0.002299 µg/mL	8.000 µg/mL	ND	Pass
Myclobutanil	0.000753 µg/mL	0.002509 µg/mL	9.000 µg/mL	ND	Pass
Hexythiazox	0.000700 µg/mL	0.002333 µg/mL	2.000 µg/mL	ND	Pass
Cyfluthrin	0.001524 µg/mL	0.005081 µg/mL	1.000 µg/mL	ND	Pass
Dimethoate	0.000685 µg/mL	0.002284 µg/mL	0.000 µg/mL	ND	Pass
Dimethomorph	0.001285 µg/mL	0.004284 µg/mL	20.000 µg/mL	ND	Pass
Captan	0.001356 µg/mL	0.004521 µg/mL	5.000 µg/mL	ND	Pass
Chlorantraniliprole	0.001565 µg/mL	0.005216 µg/mL	40.000 µg/mL	ND	Pass
Fludioxinil	0.001688 µg/mL	0.005626 µg/mL	30.000 µg/mL	ND	Pass
Methyl Parathion	0.002894 µg/mL	0.009645 µg/mL	0.000 µg/mL	ND	Pass
Coumaphos	0.001209 µg/mL	0.004032 µg/mL	0.000 µg/mL	ND	Pass
Pyrethrins	0.002267 µg/mL	0.007557 µg/mL	1.000 µg/mL	ND	Pass
PCNB	0.000588 µg/mL	0.001962 µg/mL	0.200 µg/mL	ND	Pass
Trifloxystrobin	0.000872 µg/mL	0.002906 µg/mL	30.000 µg/mL	ND	Pass



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Chemical Residue Analysis

PASS

Instrument: IR-QSIGHT02 Method: SOP-003:AnalysisOfPesticidesAndMycotoxins Accession Date: 12/9/2021 Panel Completed Date: 12/14/2021

Analyte	LOD	LOQ	Action Limits	Results	Pass/Fail
Fipronil	0.000752 µg/mL	0.002505 µg/mL	0.000 µg/mL	ND	Pass
Fenhexamid	0.000651 µg/mL	0.002171 µg/mL	10.000 µg/mL	ND	Pass
Etoxazole	0.000690 µg/mL	0.002300 µg/mL	1.500 µg/mL	ND	Pass
Etofenprox	0.000652 µg/mL	0.002174 µg/mL	0.000 µg/mL	ND	Pass
Clofentezine	0.000835 µg/mL	0.002782 µg/mL	0.500 µg/mL	ND	Pass
Bifenazate	0.001312 µg/mL	0.004374 µg/mL	5.000 µg/mL	ND	Pass
Spinosad	0.000920 µg/mL	0.003065 µg/mL	3.000 µg/mL	ND	Pass
Tebuconazole	0.000933 µg/mL	0.003111 µg/mL	2.000 µg/mL	ND	Pass
Chlorpyrifos	0.001083 µg/mL	0.003612 µg/mL	0.000 µg/mL	ND	Pass
Oxamyl	0.000641 µg/mL	0.002136 µg/mL	0.200 µg/mL	ND	Pass
Azoxystrobin	0.001545 µg/mL	0.005151 µg/mL	40.000 µg/mL	ND	Pass
Kresoxim-Methyl	0.000668 µg/mL	0.002227 µg/mL	1.000 µg/mL	ND	Pass
Methomyl	0.000614 µg/mL	0.002045 µg/mL	0.100 µg/mL	ND	Pass
Prallethrin	0.001205 µg/mL	0.004015 µg/mL	0.400 µg/mL	ND	Pass
Phosmet	0.000549 µg/mL	0.001830 µg/mL	0.200 µg/mL	ND	Pass
Carbaryl	0.001164 µg/mL	0.003880 µg/mL	0.500 µg/mL	ND	Pass
Daminozide	0.001586 µg/mL	0.005287 µg/mL	0.000 µg/mL	ND	Pass
Imazalil	0.000785 µg/mL	0.002618 µg/mL	0.000 µg/mL	ND	Pass
Aldicarb	0.001222 µg/mL	0.004072 µg/mL	0.000 µg/mL	ND	Pass
Imidacloprid	0.000674 µg/mL	0.002246 µg/mL	3.000 µg/mL	ND	Pass
Acetamiprid	0.000603 µg/mL	0.002009 µg/mL	5.000 µg/mL	ND	Pass
Mevinphos	0.000600 µg/mL	0.002000 µg/mL	0.000 µg/mL	ND	Pass
Pyridaben	0.001572 µg/mL	0.005240 µg/mL	3.000 µg/mL	ND	Pass
Malathion	0.000813 µg/mL	0.002710 µg/mL	5.000 µg/mL	ND	Pass
Chlorfenapyr	0.001529 µg/mL	0.005098 µg/mL	0.000 µg/mL	ND	Pass
Chlordane	0.001294 µg/mL	0.004314 µg/mL	0.000 µg/mL	ND	Pass
Methiocarb	0.000943 µg/mL	0.003142 µg/mL	0.000 µg/mL	ND	Pass
Abamectin	0.001925 µg/mL	0.006417 µg/mL	0.300 µg/mL	ND	Pass
Paclobutrazole	0.001487 µg/mL	0.004955 µg/mL	0.000 µg/mL	ND	Pass
Fonicamid	0.002773 µg/mL	0.009244 µg/mL	2.000 µg/mL	ND	Pass
Metalaxyl	0.000807 µg/mL	0.002689 µg/mL	15.000 µg/mL	ND	Pass

Density Analysis

PASS

Instrument: IR-AQUALAB01 Method: SOP-009:AnalysisOfDensity Accession Date: 12/9/2021 Panel Completed Date: 12/9/2021

Density: 0.946 g/mL



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