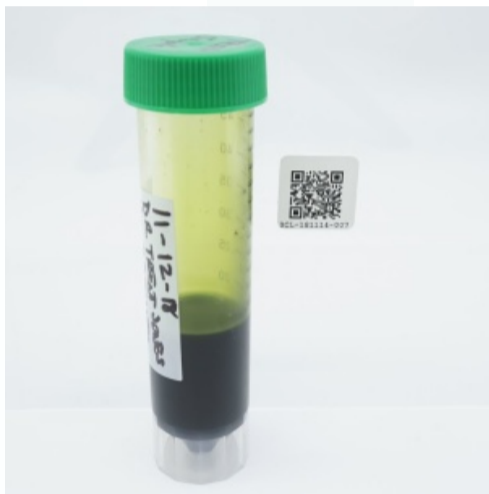


CERTIFICATE OF ANALYSIS

* FOR QUALITY ASSURANCE PURPOSES. NOT A CALIFORNIA COMPLIANCE CERTIFICATE.

PRODUCED: NOV 21, 2018

HEMP DERIVED CBD TINCTURE (TINCTURE) // CLIENT: DR. TRENT JONES // BATCH RESULT: **PASS**



MATRIX: TINCTURE
CATEGORY: EDIBLE
SAMPLE ID: BCL-181114-007
COLLECTED ON: NOV 14, 2018
RECEIVED ON: NOV 14, 2018
BATCH SIZE: 1 UNITS
SAMPLE SIZE: 1 UNITS

CBD	1.453 %
CBDA	0.2 %
TOTAL CANNABINOIDS	2.028 %



MICROBIAL
PASS



MYCOTOXINS
PASS



PESTICIDES
PASS



TERPENOIDS



CANNABINOIDS



HEAVY METALS
PASS



FOREIGN MATERIALS
PASS



RESIDUAL SOLVENTS
PASS

RESULTS CERTIFIED BY: ANDREW PHAM, M.SC.
 SCIENTIFIC DIRECTOR, BELCOSTA LABS
 NOV 21, 2018






ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	LOD	LOQ	PASS/FAIL
CBC *		0.071 %	0.71 mg/g	6 mg/g	10 mg/g	N/A
CBCA *		ND	ND	6 mg/g	10 mg/g	N/A
CBD		1.453 %	14.53 mg/g	0.56675 mg/g	1.7175 mg/g	N/A
CBDA		0.200 %	2 mg/g	0.556 mg/g	1.6845 mg/g	N/A
CBDV *		0.094 %	0.94 mg/g	6 mg/g	10 mg/g	N/A
CBDVA *		0.024 %	0.24 mg/g	6 mg/g	10 mg/g	N/A
CBG		ND	ND	0.54675 mg/g	1.657 mg/g	N/A
CBGA *		ND	ND	6 mg/g	10 mg/g	N/A
CBN		ND	ND	0.44375 mg/g	1.34475 mg/g	N/A
Δ^8 -THC *		ND	ND	6 mg/g	10 mg/g	N/A
Δ^9 -THC		0.186 %	1.86 mg/g	0.945 mg/g	2.8635 mg/g	N/A
THCA		ND	ND	0.8325 mg/g	2.5225 mg/g	N/A
THCV *		ND	ND	6 mg/g	10 mg/g	N/A
THCVA *		ND	ND	6 mg/g	10 mg/g	N/A
TOTAL THC <i>(TOTAL THC = (THCA X 0.877) + THC)</i>		0.186 %	1.86 mg/g			N/A
TOTAL CBD <i>(TOTAL CBD = (CBDA X 0.877) + CBD)</i>		1.628 %	16.28 mg/g			N/A

* BEYOND SCOPE OF ACCREDITATION

BCL-09: TERPENOID TESTING BY HS-GC/FID
NOV 21, 2018

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
1,8-CINEOLE		ND	ND	N/A
CAMPHENE		ND	ND	N/A
CARYOPHYLLENE OXIDE		ND	ND	N/A
Δ^3 -CARENE		ND	ND	N/A
GERANIOL		ND	ND	N/A
GUAIOL		ND	ND	N/A
ISOPULEGOL		ND	ND	N/A
LINALOOL		ND	ND	N/A
TERPINOLENE		ND	ND	N/A
α -BISABOLOL		ND	ND	N/A
α -HUMULENE		0.002 %	0.02 mg/g	N/A
α -OCIMENE		ND	ND	N/A
α -PINENE		0.005 %	0.05 mg/g	N/A
α -TERPINENE		ND	ND	N/A
β -CARYOPHYLLENE		0.005 %	0.05 mg/g	N/A
β -MYRCENE		0.005 %	0.05 mg/g	N/A
β -OCIMENE		0.007 %	0.07 mg/g	N/A

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
β-PINENE		0.012 %	0.12 mg/g	N/A
CIS-NEROLIDOL		ND	ND	N/A
D-LIMONENE		0.002 %	0.02 mg/g	N/A
γ-TERPINENE		0.003 %	0.03 mg/g	N/A
P-CYMENE		ND	ND	N/A
TRANS-NEROLIDOL		ND	ND	N/A

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR
NOV 16, 2018

ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
ESCHERICHIA COLI	Any amount in 1 gram	ND	PASS
SALMONELLA SPP.	Any amount in 1 gram	ND	PASS

BCL-11: MYCOTOXIN TESTING BY LC-MS/MS
NOV 18, 2018

ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
OCHRATOXIN A	20 µg/kg	ND	PASS
AFLATOXINS	20 µg/kg	ND	PASS

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI
 NOV 18, 2018

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL	ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
ACEPHATE	5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	IMAZALIL	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
ACEQUINOCYL	4 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	IMIDACLOPRID	3 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
ACETAMIPRID	5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	KRESOXIM-METHYL	1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
ALDICARB	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	METALAXYL	15 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
AZOXYSTROBIN	40 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	METHIOCARB	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
BIFENAZATE	5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	METHOMYL	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
BIFENTHRIN	0.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	METHYL PARATHION	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
BOSCALID	10 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	MYCLOBUTANIL	9 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
CAPTAN	5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	NALED	0.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
CARBARYL	0.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	OXAMYL	0.2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
CARBOFURAN	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	PACLOBUTRAZOL	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
CHLORANTRANIL-IPROLE	40 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	PHOSMET	0.2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
CHLORFENAPYR	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	PIPERONYLBUTOXIDE	8 µg/g	0.09 µg/g	0.03 µg/g	0.05 µg/g	PASS
CHLORPYRIFOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	PRALLETHRIN	0.4 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
CLOFENTEZINE	0.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	PROPICONAZOLE	20 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
COUMAPHOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	PROPOXUR	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
CYFLUTHRIN	1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	PYRIDABEN	3 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL	ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
CYPERMETHRIN	1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	SPINETORAM	3 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
DAMINOZIDE	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	SPIROMESIFEN	12 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
DIAZINON	0.2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	SPIROTETRAMAT	13 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
DICHLORVOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	SPIROXAMINE	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
DIMETHOATE	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	TEBUCONAZOLE	2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
ETHOPROPHOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	THIACLOPRID	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
ETOFENPROX	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	THIAMETHOXAM	4.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
ETOXAZOLE	1.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	TRIFLOXYSTROB-IN	30 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
FENHEXAMID	10 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	ABAMECTIN	0.3 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
FENOXYCARB	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	DIMETHOMORPH	20 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
FENPYROXIMATE	2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	MEVINPHOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
FIPRONIL	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	PERMETHRIN	20 µg/g	<LOQ	0.03 µg/g	0.05 µg/g	PASS
FLONICAMID	2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	PYRETHRINS	1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
FLUDIOXONIL	30 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	SPINOSAD	3 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
HEXYTHIAZOX	2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	MALATHION	5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS APCI
NOV 18, 2018

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL	ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
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ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL	ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
CHLORDANE	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS	PENTACHLORONITROBENZENE	0.2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS

BCL-10: HEAVY METAL TESTING BY ICP-MS
NOV 19, 2018

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
ARSENIC	1.5 µg/g	ND	0.353 µg/kg	1.069 µg/kg	PASS
CADMIUM	0.5 µg/g	ND	0.357 µg/kg	1.082 µg/kg	PASS
LEAD	0.5 µg/g	0.04 µg/g	0.638 µg/kg	1.933 µg/kg	PASS
MERCURY	3 µg/g	ND	0.412 µg/kg	1.251 µg/kg	PASS

BCL-07: FOREIGN MATERIAL TESTING
NOV 14, 2018

ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
CINDERS	25 %	ND	PASS
DIRT	25 %	ND	PASS
IMBEDDED FOREIGN MATERIAL	25 %	ND	PASS
INSECT FRAGMENTS	1 Unit	ND	PASS
MAMMAL EXCREMENT	1 Unit	ND	PASS
MOLD	25 %	ND	PASS

ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
RODENT HAIR	1 Unit	ND	PASS
SAND	25 %	ND	PASS
SOIL	25 %	ND	PASS

BCL-04: RESIDUAL SOLVENT ANALYSIS BY HS/GC-FID
NOV 19, 2018

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
1,2-DICHLOROETHANE	Any amount	ND	0.6 µg/g	1 µg/g	PASS
ACETONE	5000 µg/g	ND	6 µg/g	15 µg/g	PASS
ACETONITRILE	410 µg/g	ND	3.6 µg/g	6 µg/g	PASS
BENZENE	Any amount	ND	0.6 µg/g	1 µg/g	PASS
BUTANE	5000 µg/g	ND	6 µg/g	10 µg/g	PASS
CHLOROFORM	Any amount	ND	0.6 µg/g	1 µg/g	PASS
ETHANOL	5000 µg/g	ND	6 µg/g	15 µg/g	PASS
ETHYL ACETATE	5000 µg/g	ND	6 µg/g	10 µg/g	PASS
ETHYL ETHER	5000 µg/g	ND	6 µg/g	10 µg/g	PASS
ETHYLENE OXIDE	Any amount	ND	0.6 µg/g	1 µg/g	PASS
HEPTANE	5000 µg/g	ND	6 µg/g	10 µg/g	PASS
HEXANE	290 µg/g	ND	6 µg/g	10 µg/g	PASS

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
ISOPROPYL ALCOHOL	5000 µg/g	ND	6 µg/g	15 µg/g	PASS
METHANOL	3000 µg/g	ND	6 µg/g	15 µg/g	PASS
METHYLENE CHLORIDE	Any amount	ND	0.6 µg/g	1 µg/g	PASS
PENTANE	5000 µg/g	ND	6 µg/g	10 µg/g	PASS
PROPANE	5000 µg/g	ND	6 µg/g	10 µg/g	PASS
TOLUENE	890 µg/g	ND	6 µg/g	10 µg/g	PASS
TRICHLOROETHY- LENE	Any amount	ND	0.6 µg/g	1 µg/g	PASS
TOTAL XYLENES	2170 µg/g	ND	6 µg/g	10 µg/g	PASS

** FOR QUALITY ASSURANCE PURPOSES. NOT A CALIFORNIA COMPLIANCE CERTIFICATE.*