

### Medicine Creek Analytics Certificate of Analysis

3700 Pacific HWY E, Ste 400, Fife, WA 98424  
 WA State I502 Certification 0018 | ISO 17025 91428 | Accreditation #91428



### Sample: CBD Source Oil Batch 006

#COC/INVOICE: 3787

Laboratory ID <b>201104-004</b>	Matrix <b>Concentrate</b>	Batch ID	Inventory ID
Tested for <b>Virtual Services</b>	Address <b>2018 Iron St Ste B Bellingham, WA 98226</b>		License <b>412073</b>
Received <b>11/04/2020</b>			Reported <b>11/13/2020</b>

Analyses executed **CAN-X, MET, MIC, TER, RES, PES, MYC**

### CAN - Cannabinoid Profile Analysis

Analyzed **Nov 11, 2020** | Instrument **HPLC-UV**

Analyte	LOD %	LOQ %	Result %	Result mg/g
CBDVA	0.003	0.01	ND	ND
CBDV	0.003	0.01	ND	ND
CBDA	0.003	0.01	ND	ND
CBD	0.003	0.01	51.149	511.494
CBGA	0.003	0.01	ND	ND
CBG	0.003	0.01	ND	ND
THCVA	0.003	0.01	ND	ND
THCV	0.003	0.01	ND	ND
CBNA	0.003	0.01	ND	ND
CBN	0.003	0.01	ND	ND
THCA	0.003	0.01	ND	ND
Δ9 THC	0.003	0.01	ND	ND
Δ8 THC	0.003	0.01	ND	ND
CBLA	0.003	0.01	ND	ND
CBL	0.003	0.01	ND	ND
CBCA	0.003	0.01	ND	ND
CBC	0.003	0.01	0.386	3.857
<b>Total THC</b> (THCa * 0.877 + THC)			0.000	0.000
<b>Total CBD</b> (CBDA * 0.877 + CBD)			51.149	511.494

### MET - Heavy Metals Detection Analysis

Analyzed **Nov 11, 2020** | Instrument **ICP-MS**

Analyte	LOD ug/5g	LOQ ug/5g	Result ug/5g	WRL ug/5g	Analyte	LOD ug/5g	LOQ ug/5g	Result ug/5g	WRL ug/5g
Arsenic (As)	0.02	0.06	ND	10	Cadmium (Cd)	0.01	0.04	ND	4.1
Lead (Pb)	0.01	0.02	ND	6	Mercury (Hg)	0.02	0.07	ND	2

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- TNTC Too Numerous to Count
- mg/g Milligrams per gram
- ppm Parts per million
- WRL Washington Regulatory Limit



Authorized Signature

*Kyle Shelton*

Kyle Shelton  
 Lab Manager  
 11/13/2020



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### MIC - Microbial- I502 panel (3) Analysis

Analyzed **Nov 09, 2020** | Instrument **Plating**

Analyte	LOD CFU/g	LOQ CFU/g	Result CFU/g	WRL CFU/g	Analyte	LOD CFU/g	LOQ CFU/g	Result CFU/g	WRL CFU/g
E. coli			ND	DET/ND	Bile Tolerant gram neg	100.0		ND	1000
Salmonella	100.0		ND	DET/ND					

### TER - Terpenes Analysis

Analyzed **Nov 06, 2020** | Instrument **GC-FID**

Analyte	LOD mg/g	LOQ mg/g	(%)	(mg/g)	Analyte	LOD mg/g	LOQ mg/g	(%)	(mg/g)
α-Pinene (a-Pin)	0.05	0.12	ND	ND	Camphene (Cam)	0.05	0.12	ND	ND
β-Myrcene (Myr)	0.05	0.12	ND	ND	β-pinene (b-Pin)	0.05	0.12	ND	ND
Δ3-Carene (3-Car)	0.05	0.12	ND	ND	α-Terpinene (a-Ter)	0.05	0.12	ND	ND
Limonene (Lim)	0.05	0.12	ND	ND	p-Cymene (p-Cym)	0.05	0.12	ND	ND
Ocimene 1 (Oci1)	0.05	0.12	ND	ND	Eucalyptol (Euca)	0.05	0.12	ND	ND
g-Terpinene (g-Ter)	0.05	0.12	ND	ND	Terpinolene (Terp)	0.05	0.12	ND	ND
Linalool (Lin)	0.05	0.12	ND	ND	Geraniol (Gera)	0.05	0.12	ND	ND
Isopulegol (Isop)	0.05	0.12	ND	ND	β-Caryophyllene (b-Cary)	0.05	0.12	ND	ND
α-Humulene (Hum)	0.05	0.12	ND	ND	cis-Nerolidol (ci-Ner)	0.05	0.12	ND	ND
trans-Nerolidol (tr-Ner)	0.05	0.12	ND	ND	Guaiol (Gua)	0.05	0.12	ND	ND
Caryophyllene Oxide (ca-Oxi)	0.05	0.12	ND	ND	α-Bisabolol (a-Bbis)	0.05	0.12	0.028	.28
<b>Total Terpene Concentration</b>								<b>0.03</b>	<b>0.28</b>

### RES - Residual Solvents Analysis

Analyzed **Nov 09, 2020** | Instrument **HS-GC-FID**

Analyte	Results PPM	WRL PPM	Analyte	Results PPM	WRL PPM
Acetone	ND	5000	Acetonitrile	ND	50
Benzene	ND	2	Butane	ND	5000
Chloroform	ND	2	Cyclohexane	ND	3880
Dichloromethane	ND	600	Ethanol	ND	5000
Ethyl acetate	ND	5000	Ethyl ether	ND	5000
Heptane	ND	5000	Hexane	ND	290
Isobutane	ND	5000	Methanol	ND	3000
Pentane	367.5	5000	2-Propanol (IPA)	ND	5000
Propane	ND	5000	Toluene	ND	890
Xylene	ND	2170			

### PES - Pesticides Screening Analysis

Analyzed **Nov 13, 2020** | Instrument **LC-MS/MS (ESI)**

Analyte	LOD ppm	LOQ ppm	Result ppm	WRL ppm	Analyte	LOD ppm	LOQ ppm	Result ppm	WRL ppm
3-Hydroxycarbofuran	0.075	0.25	ND	0.2	Abamectin B1a	0.15	0.45	ND	0.5
Acephate	0.1	0.3	ND	0.4	Acetamiprid	0.33	0.1	ND	0.2
Aldicarb Sulfone	0.05	0.2	ND	0.4	Aldicarb	0.075	0.25	ND	0.4
Aminocarb	0.033	0.1	ND	0.1	Azoxystrobin	0.05	0.2	ND	0.2
Benalaxyl	0.05	0.15	ND	0.1	Bifenthrin	0.05	0.2	ND	0.2
Bifenazate	0.05	0.2	ND	0.2	Boscalid			ND	0.4
Butafenacil	0.05	0.15	ND	0.1	Carbaryl	0.05	0.2	ND	0.2
Carbetamide	0.05	0.15	ND	0.1	Carbofuran	0.05	0.15	ND	0.2
Carboxin	0.05	0.15	ND	0.1	Carfentrazone-ethyl NH4	0.05	0.2	ND	0.1
Chlorantraniliprole	0.075	0.25	ND	0.2	Chlorotoluron	0.05	0.2	ND	0.1
Chloroxuron	0.05	0.15	ND	0.1	Chlorpyrifos	0.075	0.25	ND	0.2

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**LOD** Limit of Detection  
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**DET** Detected below quantitation limit  
**CFU/g** Colony Forming Units per 1 gram  
**TNTC** Too Numerous to Count  
**mg/g** Milligrams per gram  
**ppm** Parts per million  
**WRL** Washington Regulatory Limit



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Analyte	LOD ppm	LOQ ppm	Result ppm	WRL ppm	Analyte	LOD ppm	LOQ ppm	Result ppm	WRL ppm
Clofentezine			ND	0.2	Clothianidin	0.05	0.15	ND	0.1
Cyazofamid	0.05	0.15	ND	0.1	Cycluron	0.05	0.15	ND	0.1
Diazinon	0.05	0.2	ND	0.2	Dicrotophos	0.05	0.15	ND	0.1
Diethofencarb	0.05	0.15	ND	0.1	Dimethoate	0.05	0.2	ND	0.2
Dimethomorph	0.05	0.2	ND	0.1	Dimoxystrobin	0.05	0.15	ND	0.1
Diuron	0.1	0.3	ND	0.1	Epoxiconazole	0.075	0.25	ND	0.1
Ethiofencarb	0.075	0.25	ND	0.1	Ethoprophos	0.1	0.4	ND	0.2
Etofenprox	0.04	0.125	ND	0.4	Etoazole	0.05	0.2	ND	0.2
Fenamidone	0.1	0.3	ND	0.1	Fenazaquin	0.05	0.2	ND	0.1
Fenoxycarb	0.05	0.2	ND	0.2	Fenpyroximate	0.04	0.125	ND	0.4
Fenuron	0.033	0.1	ND	0.1	Fipronil	0.1	0.3	ND	0.4
Flonicamid			ND	1	Fluazinam	0.075	0.25	ND	0.1
Fludioxonil			ND	0.4	Flufenacet	0.05	0.2	ND	0.1
Fluometuron	0.05	0.2	ND	0.1	Flutolanil	0.05	0.2	ND	0.1
Fuberidazole	0.033	0.1	ND	0.1	Furalaxyl	0.05	0.15	ND	0.2
Furathiocarb	0.05	0.2	ND	0.1	Hexythiazox	0.05	0.2	ND	1
Imazalil	0.1	0.4	ND	0.2	Imidacloprid	0.05	0.2	ND	0.4
Indoxacarb	0.05	0.2	ND	0.1	Iprovalicarb	0.05	0.2	ND	0.1
Isoprocarb	0.05	0.2	ND	0.1	Isoproturon	0.05	0.2	ND	0.1
Kresoxym-methyl	0.05	0.15	ND	0.4	Mandipropamid	0.05	0.2	ND	0.1
Mefenacet	0.05	0.15	ND	0.1	Malathion	0.05	0.2	ND	0.2
Mepronil			ND	0.1	Metalaxyl	0.05	0.15	ND	0.2
Methabenzthiazuron	0.05	0.15	ND	0.1	Methamidophos	0.033	0.1	ND	0.1
Methiocarb			ND	0.2	Methomyl	0.05	0.2	ND	0.4
Methoprotryne	0.05	0.2	ND	0.1	Methoxyfenozide	0.05	0.15	ND	0.1
Mexacarbate	0.033	0.1	ND	0.1	Monocrotophos			ND	0.1
Myclobutanil	0.075	0.25	ND	0.2	Nitenpyram	0.05	0.2	ND	0.1
Omethoate	0.05	0.2	ND	0.1	Oxadixyl	0.05	0.15	ND	0.2
Oxamyl	0.033	0.1	ND	0.1	Paclbutrazol	0.05	0.2	ND	0.4
Permethrin NH4	0.05	0.2	ND	0.2	Phosmet	0.05	0.2	ND	0.2
Picoxystrobin	0.05	0.2	ND	0.1	Piperonyl Butoxide	0.05	0.15	ND	2
Pirimicarb	0.05	0.15	ND	0.1	Prometon	0.05	0.15	ND	0.1
Propamocarb	0.04	0.125	ND	0.1	Propargite	0.04	0.125	ND	0.1
Propoxur	0.04	0.125	ND	0.2	Pymetrozine	0.05	0.2	ND	0.1
Pyracarbolid	0.04	0.125	ND	0.1	Pyraclostrobin	0.05	0.15	ND	0.1
Pyrethrin I			ND	1	Pyrethrin II			ND	1
Pyridaben	0.05	0.2	ND	0.2	Pyriproxyfen	0.05	0.15	ND	0.1
Quinoxifen	0.033	0.1	ND	0.1	Rotenone	0.05	0.2	ND	0.1
Spinosad A	0.05	0.2	ND	0.2	Spinosad D	0.05	0.2	ND	0.2
Spiromesifen	0.04	0.125	ND	0.2	Spirotetramat	0.05	0.2	ND	0.2
Spiroxamine	0.05	0.15	ND	0.4	Tebuconazole	0.05	0.2	ND	0.4
Tebuconazole	0.05	0.15	ND	0.1	Tebuthiuron	0.04	0.125	ND	0.1
Thiacloprid	0.05	0.15	ND	0.2	Thiamethoxam	0.05	0.2	ND	0.2
Thiobencarb	0.05	0.2	ND	0.1	Thiophanate-Methyl	0.05	0.15	ND	0.1
Tricyclazole	0.05	0.15	ND	0.1	Trifloxystrobin	0.04	0.125	ND	0.2
Triflumizole	0.05	0.15	ND	0.1	Uniconazole	0.075	0.25	ND	0.5
Vamidothion	0.033	0.1	ND	0.1	Zoxamide	0.05	0.2	ND	0.1

## MYC - Mycotoxins Analysis

Analyzed **Nov 10, 2020** | Instrument **ELISA**

Analyte	LOD ppb	Result ppb	WRL ppb	Analyte	LOD ppb	Result ppb	WRL ppb
Total Aflatoxins	3.0	ND	20	Ochratoxin A	1.9	ND	20

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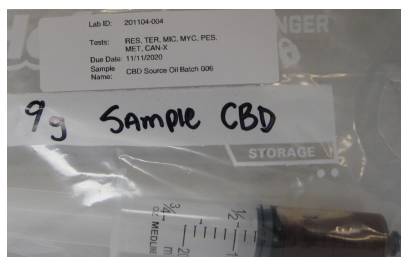
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