

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: **CBDA**

#COC/INVOICE: **6471**

Sample ID <b>230317-008</b>	Matrix <b>Concentrate</b>	Lot or Batch #	External Inv ID
			License
Received <b>03/20/2023</b>		Reported <b>03/23/2023</b>	

Analyses executed **CAN, MET, RES, PES\_WAC**

CAN - Cannabinoid Profile

Analyzed **Mar 23, 2023** | Instrument **HPLC LC2040**

Analyte	LOD %	LOQ %	Result %	Result mg/g
CBDV	0.003	0.01	ND	ND
CBDA	0.003	0.01	57.765	577.646
CBD	0.003	0.01	2.153	21.529
CBGA	0.003	0.01	0.524	5.243
CBG	0.003	0.01	ND	ND
THCV	0.003	0.01	ND	ND
CBN	0.003	0.01	ND	ND
THCA	0.003	0.01	1.669	16.692
Δ9 THC	0.003	0.01	ND	ND
Δ8 THC	0.003	0.01	ND	ND
CBC	0.003	0.01	ND	ND
<b>Total THC</b> (THCa * 0.877 + THC)			1.464	14.639
<b>Total CBD</b> (CBDA * 0.877 + CBD)			52.812	528.124

MET - Heavy Metals Detection

Analyzed **Mar 23, 2023** | Instrument **ICP-MS**

Analyte	LOD ug/g	LOQ ug/g	Result ug/g (ppm)	Analyte	LOD ug/g	LOQ ug/g	Result ug/g (ppm)
Arsenic (As)	0.049	0.164	ND	Cadmium (Cd)	0.01	0.034	DET
Lead (Pb)	0.034	0.114	ND	Mercury (Hg)	0.01	0.035	ND

- NR** Not Reported
- ND** Not Detected
- <LOD** Below Lod
- NT** Not Tested
- LOD** Limit of Detection
- LOQ** Limit of Quantification
- 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
- µg/g** Microgram per gram
- CFM** Confirmed or Alternate Method

Authorized Signature

*Kyle Shelton*

Kyle Shelton  
 Lab Manager  
 03/23/2023



\*This report shall not be reproduced except in full without the written approval of the lab. Results are only for samples and batches indicated. Measurement uncertainties and reporting limits available upon request. Results are valid for 12 months from date reported. LOD and LOQ values vary depending on matrix and dilution factor. Contact lab for specific LOD and LOQ values.

## RES - Residual Solvents

Analyzed **Mar 23, 2023** | Instrument **HS-GC-FID**

Analyte	LOD ppm	LOQ ppm	Results PPM	WRL PPM	Analyte	LOD ppm	LOQ ppm	Results PPM	WRL PPM
Acetone	5	25	ND	5000	Acetonitrile	10	30	ND	50
Benzene	0.3	1.0	ND	2	Butane	5	20	ND	5000
Chloroform			ND	2	Cyclohexane	10	50	ND	3880
Dichloromethane	25	75	ND	600	Ethanol	5	20	ND	5000
Ethyl acetate	10	50	ND	5000	Ethyl ether	5	20	ND	5000
Heptane	10	50	ND	5000	Hexane	2	10	ND	290
Isobutane	5	20	ND	5000	Methanol	10	30	ND	3000
Pentane	2	6	ND	5000	2-Propanol (IPA)	5	25	ND	5000
Propane	10	50	ND	5000	Toluene	20	100	ND	890
Xylene	20	100	ND	2170					

## PES\_WAC - WA Compliance Pesticide (short list)

Analyzed **Mar 23, 2023** | Instrument **LC-MS/MS (ESI) & GC-MS/MS**

Analyte	Result µg/g (ppm)	WA State Action Limit	LOD (ppm)	LOQ (ppm)	Analyte	Result µg/g (ppm)	WA State Action Limit	LOD (ppm)	LOQ (ppm)
3-Hydroxycarbofuran	ND	0.2	0.072	0.216	Abamectin B1a	ND	0.5		
Acephate	ND	0.4	0.025	0.076	Acequinocyl	ND	2		
Acetamiprid	ND	0.2	0.025	0.076	Aldicarb	ND	0.4	0.05	0.15
Aldicarb Sulfone	ND	0.4	0.05	0.15	Azoxystrobin	ND	0.2	0.039	0.116
Bifenazate	ND	0.2	0.5	0.15	Bifenthrin - GC	ND	0.2	0.028	0.094
Boscalid - GC	ND	0.4	0.029	0.097	Carbaryl	ND	0.2	0.039	0.116
Carbofuran	ND	0.2	0.05	0.15	Chlorantraniliprole	ND	0.2	0.065	0.196
Chlorfenapyr	ND	1	0.033	0.111	Chlorpyrifos - GC	ND	0.2	0.007	0.022
Chlorpyrifos - LC	ND	0.2	0.043	0.13	Clofentezine	ND	0.2		
Cyfluthrin (Sum)	ND	1	0.016	0.053	Cypermethrin (Sum)	ND	1	0.022	0.074
Daminozide	ND	1			DDVP (Dichlorvos)	ND	0.1	0.022	0.072
Diazinon	ND	0.2	0.032	0.096	Dimethoate	ND	0.2	0.025	0.076
Ethoprophos	ND	0.2	0.05	0.15	Etofenprox	ND	0.4	0.128	0.383
Etoxazole	ND	0.2	0.043	0.13	Fenoxycarb	ND	0.2	0.032	0.096
Fenpyroximate	ND	0.4	0.032	0.096	Fipronil	ND	0.4	0.043	0.13
Flonicamid	ND	1	0.05	0.15	Fludioxonil	ND	0.4	0.1	0.3
Hexythiazox	ND	1	0.089	0.266	Imazalil	ND	0.2	0.05	0.15
Imidacloprid	ND	0.4	0.05	0.15	Kresoxym-methyl	ND	0.4		
Malathion	ND	0.2			Metalaxyl	ND	0.2	0.043	0.13
Methiocarb	ND	0.2			Methomyl	ND	0.4	0.065	0.196
MGK-264 (Sum)	ND	0.2	0.01	0.03	Myclobutanil	ND	0.2	0.05	0.15
Naled	ND	0.5	0.022	0.072	Oxamyl	ND	1	0.032	0.096
Paclobutrazol	ND	0.4	0.05	0.15	Parathion-Methyl	ND	0.2	0.017	0.058
Permethrins (Sum) - LC	ND	0.2	0.189	0.567	Permethrins (Sum) - GC	ND	0.2	0.039	0.129
Phosmet	ND	0.2			Piperonyl Butoxide	ND	2		
Prallethrin	ND	0.2			Propiconazole (Sum)	ND	0.4		
Propoxur	ND	0.2			Pyrethrins (Sum) - LC	ND	1		
Pyridaben	ND	0.2			Spinosad (Sum)	ND	0.2		
Spiromesifen	ND	0.2			Spirotetramat	ND	0.2		
Spiroxamine	ND	0.4			Tebuconazole	ND	0.4		
Thiacloprid	ND	0.2			Thiamethoxam	ND	0.2		
Trifloxystrobin	ND	0.2							

**NR** Not Reported  
**ND** Not Detected  
**<LOD** Below Lod  
**NT** Not Tested  
**LOD** Limit of Detection  
**LOQ** Limit of Quantification  
**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  
**µg/g** Microgram per gram  
**CFM** Confirmed or Alternate Method

Authorized Signature

*Kyle Shelton*

Kyle Shelton  
 Lab Manager  
 03/23/2023

\*This report shall not be reproduced except in full without the written approval of the lab. Results are only for samples and batches indicated. Measurement uncertainties and reporting limits available upon request. Results are valid for 12 months from date reported. LOD and LOQ values vary depending on matrix and dilution factor. Contact lab for specific LOD and LOQ values.



<b>NR</b>	Not Reported	<b>CFU/g</b>	Colony Forming Units per 1 gram
<b>ND</b>	Not Detected	<b>TNTC</b>	Too Numerous to Count
<b>&lt;LOD</b>	Below Lod	<b>mg/g</b>	Milligrams per gram
<b>NT</b>	Not Tested	<b>ppm</b>	Parts per million
<b>LOD</b>	Limit of Detection	<b>WRL</b>	Washington Regulatory Limit
<b>LOQ</b>	Limit of Quantification	<b>µg/g</b>	Microgram per gram
<b>DET</b>	Detected below quantitation limit	<b>CFM</b>	Confirmed or Alternate Method

Authorized Signature

*Kyle Shelton*

Kyle Shelton  
Lab Manager  
03/23/2023