

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 **24k Gold**

Laboratory ID 190524-039	Matrix Terpenes
Tested for Atlas Technology LLC	
Sampled -	Received May 24, 2019
	Reported Jun 08, 2020
Analyses executed TER, RES, PES	

Laboratory note : This product contains only terpenes and terpenoids. It does not contain any cannabinoids.

RES - Residual Solvents Testing Analysis

Analyzed **May 29, 2019** | Instrument **HS-GC-FID**

Analyte	Result PPM	WRL PPM	Analyte	Result PPM	WRL PPM
Propane (Prop)	<LOD	5000	Isobutane (iso-But)	<LOD	5000
n-Butane (n-But)	<LOD	5000	Methanol (Metha)	<LOD	3000
n-Pentane (n-Pen)	<LOD	5000	Ethanol (Eth)	<LOD	
Ethyl Ether (EthEt)	<LOD	5000	Acetone (Acet)	<LOD	5000
2-Propanol (2-Prop)	<LOD	5000	Acetonitrile (Acetonit)	<LOD	50
Dichloromethane (Dichme)	<LOD	600	n-Hexane (nHexa)	<LOD	290
Ethyl Acetate (EthAc)	<LOD	5000	Chloroform (Chlfrm)	<LOD	2
Cyclohexane (Cycex)	<LOD	3880	Benzene (Benz)	<LOD	2
n-Heptane (nHept)	<LOD	5000	Toluene (Tol)	<LOD	890
Xylene (Xyl)	<LOD	2170			

*The limit of 2170 ug/g for Xylene is to be intended as the combined concentration of Ethyl Benzene, m-Xylene, o-Xylene, p-Xylene.

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 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



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Authorized Signature

Kyle Shelton
 Mon, 08 Jun 2020 15:24:48 -0700

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PES - Pesticides Screening Analysis

Analyzed May 29, 2019 | Instrument LCMS 8050

Analyte	LOD ppm	LOQ ppm	Result PPM	WRL PPM	Analyte	LOD ppm	LOQ ppm	Result PPM	WRL PPM
3-Hydroxycarbofuran	0.075	0.25	<LOD	0.2	Abamectin B1a	0.15	0.45	<LOD	0.5
Acephate	0.1	0.3	<LOD	0.4	Acetamiprid	0.033	0.1	<LOD	0.2
Aldicarb Sulfone	0.05	0.2	<LOD	0.4	Aminocarb	0.033	0.1	<LOD	0.1
Azoxystrobin	0.05	0.2	<LOD	0.2	Benalaxyl	0.05	0.15	<LOD	0.1
Bifenazate	0.05	0.2	<LOD	0.2	Butafenacil	0.05	0.15	<LOD	0.1
Carbaryl	0.05	0.2	<LOD	0.2	Carbetamide	0.05	0.15	<LOD	0.1
Carbofuran	0.05	0.15	<LOD	0.2	Carboxin	0.05	0.15	<LOD	0.1
Carfentrazone-ethyl	0.05	0.2	<LOD	0.1	Chlorantraniliprole	0.075	0.25	<LOD	0.2
Chlorotoluron	0.05	0.2	<LOD	0.1	Chloroxuron	0.05	0.15	<LOD	0.1
Chlorpyrifos	0.075	0.25	<LOD	0.2	Clofentezine			<LOD	0.2
Clothianidin	0.05	0.15	<LOD	0.1	Cyazofamid	0.05	0.15	<LOD	0.1
Cycluron	0.05	0.15	<LOD	0.1	Diclotophos	0.05	0.15	<LOD	0.1
Diethofencarb	0.05	0.15	<LOD	0.1	Dimethoate	0.05	0.2	<LOD	0.2
Dimethomorph	0.05	0.2	<LOD	0.1	Dimoxystrobin	0.05	0.15	<LOD	0.1
Diuron	0.1	0.3	<LOD	0.1	Epoxiconazole	0.075	0.25	<LOD	0.1
Ethiofencarb	0.075	0.25	<LOD	0.1	Ethoprophos	0.1	0.4	<LOD	0.2
Etoazole	0.05	0.2	<LOD	0.2	Fenamidone	0.05	0.15	<LOD	0.1
Fenazaquin	0.05	0.2	<LOD	0.1	Fenoxycarb	0.05	0.2	<LOD	0.2
Fenpyroximate	0.04	0.125	<LOD	0.4	Fenuron	0.033	0.1	<LOD	0.1
Fipronil	0.1	0.3	<LOD	0.4	Flonicamid			<LOD	1
Fluazinam	0.075	0.25	<LOD	0.1	Fludioxonil			<LOD	0.4
Flufenacet	0.05	0.2	<LOD	0.1	Fluometuron	0.05	0.2	<LOD	0.1
Flutolanil	0.05	0.2	<LOD	0.1	Fuberidazole	0.033	0.1	<LOD	0.1
Furalaxyl	0.05	0.15	<LOD	0.1	Furathiocarb	0.05	0.2	<LOD	0.1
Hexythiazox	0.05	0.2	<LOD	1	Imazalil	0.1	0.4	<LOD	0.2
Imidacloprid	0.05	0.2	<LOD	0.4	Indoxacarb	0.05	0.2	<LOD	0.1
Iprovalicarb	0.05	0.2	<LOD	0.1	Isoprocarb	0.05	0.2	<LOD	0.1
Isoproturon	0.05	0.15	<LOD	0.1	Kresoxym-methyl	0.05	0.15	<LOD	0.4
Mandipropamid	0.05	0.2	<LOD	0.1	Mefenacet	0.05	0.15	<LOD	0.1
Metalaxyl	0.05	0.15	<LOD	0.2	Methabenzthiazuron	0.05	0.15	<LOD	0.1
Methamidophos	0.033	0.1	<LOD	0.1	Methiocarb			<LOD	0.2
Methoprotryne	0.05	0.2	<LOD	0.1	Methoxyfenozone	0.05	0.15	<LOD	0.1
Mexacarbate	0.033	0.1	<LOD	0.1	Monocrotophos			<LOD	0.1
Myclobutanil	0.075	0.25	<LOD	0.2	Nitenpyram	0.05	0.2	<LOD	0.1
Omethoate	0.05	0.2	<LOD	0.1	Oxadixyl	0.05	0.2	<LOD	0.1
Oxamyl	0.033	0.1	<LOD	1	Paclobutrazol	0.05	0.2	<LOD	0.4
Permethrin	0.05	0.2	<LOD	0.2	Picoxystrobin	0.05	0.2	<LOD	0.1
Piperonyl Butoxide	0.05	0.15	<LOD	2	Pirimicarb	0.05	0.15	<LOD	0.1
Prometon	0.05	0.15	<LOD	0.1	Propamocarb	0.04	0.125	<LOD	0.1
Propargite	0.04	0.125	<LOD	0.1	Propoxur	0.04	0.125	<LOD	0.2
Pymetrozine	0.05	0.2	<LOD	0.1	Pyracarbolid	0.04	0.125	<LOD	0.1
Pyraclostrobin	0.05	0.15	<LOD	0.1	Pyrethrin I			<LOD	1
Pyrethrin II			<LOD	1	Pyridaben	0.05	0.2	<LOD	0.2
Pyriproxyfen	0.05	0.15	<LOD	0.1	Quinoxifen	0.033	0.1	<LOD	0.1
Rotenone	0.05	0.2	<LOD	0.1	Spinosad A	0.05	0.2	<LOD	0.2
Spinosad D	0.05	0.2	<LOD	0.2	Spiromesifen	0.04	0.125	<LOD	0.2
Spirotetramat	0.05	0.2	<LOD	0.2	Tebuconazole	0.05	0.2	<LOD	0.4
Tebufenozide	0.05	0.15	<LOD	0.1	Tebuthiuron	0.04	0.125	<LOD	0.1
Thiacloprid	0.05	0.15	<LOD	0.2	Thiamethoxam	0.05	0.2	<LOD	0.2
Thiobencarb	0.05	0.2	<LOD	0.1	Thiophanate-Methyl	0.05	0.15	<LOD	0.1
Tricyclazole	0.05	0.15	<LOD	0.1	Trifloxystrobin	0.04	0.125	<LOD	0.2

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 LOQ Limit of Quantification
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 CFU/g Colony Forming Units per 1 gram
 TNTC Too Numerous to Count
 mg/g Milligrams per gram
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Triflumizole	0.05	0.15	<LOD	0.1	Vamidothion	0.033	0.1	<LOD	0.1
Zoxamide	0.05	0.2	<LOD	0.1	Cryomazine			<LOD	0.1
Formetanate HCl			<LOD	0.1	Metribuzin			<LOD	0.1
Thidiazuron			<LOD	0.1	Monolinuron			<LOD	0.1
Metobromuron			<LOD	0.1	Triadimefon			<LOD	0.1
Fenhexamid			<LOD	0.1	Linuron			<LOD	0.1
Ethiprole			<LOD	0.1	Fenarimol			<LOD	0.1
Triticonazole			<LOD	0.1	Fluquinconazole			<LOD	0.1
Diflubenzuron			<LOD	0.1	Diniconazole			<LOD	0.1
Bitertanol			<LOD	0.1	Triflumuron			<LOD	0.1
Tebufenpyrad			<LOD	0.1	Sulfentrazone			<LOD	0.1
Hexaflumuron			<LOD	0.1	Metaflumizone			<LOD	0.1
Bromacil			NT	0.1	Pentachloronitrobenzene			NT	0.1
Dinotefuran			<LOD	0.1	Bendiocarb			<LOD	0.1
Flutriafol			<LOD	0.1	Fenobucarb			<LOD	0.1
Siduron			<LOD	0.1	Promecarb			<LOD	0.1
Mepanipyrim			<LOD	0.1	Triadimenol			<LOD	0.1
Fluoxastrobin			<LOD	0.1	Fenbuconazole			<LOD	0.1
Tetraconazole			<LOD	0.1	Penconazole			<LOD	0.1
Neburon			<LOD	0.1	Metconazole			<LOD	0.1
Bupirimate			<LOD	0.1	Flusilazole			<LOD	0.1
Temephos			<LOD	0.1	Emamectin-benzoate b1a			<LOD	0.1
AbamectinB1a 890.5			<LOD	0.5	Disulfoton Sulfone			<LOD	0.1
Tetrachlorvinphos			<LOD	0.1	Daminozide			<LOD	1
Mepronil			<LOD	0.1					

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TER - Terpenes Testing Analysis

Analyzed May 30, 2019 | Instrument GC-FID

Analyte	LOD mg/g	LOQ mg/g	(%)	(mg/g)	Analyte	LOD mg/g	LOQ mg/g	(%)	(mg/g)
α-Pinene (α-Pin)	0.05	0.12	5.19	51.87	Camphene (Cam)	0.05	0.12	0.88	8.84
β-Myrcene (Myr)	0.05	0.12	29.22	292.23	β-Pinene (β-Pin)	0.05	0.12	6.99	69.91
Δ3-Carene (3-Car)	0.05	0.12	1.34	13.45	α-Terpinene (α-Ter)	0.05	0.12	ND	ND
Limonene (Lim)	0.05	0.12	33.13	331.26	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	1.11	11.13
Linalool (Lin)	0.05	0.12	9.25	92.49	Geraniol (Gera)	0.05	0.12	ND	ND
Isopulegol (Isop)	0.05	0.12	ND	ND	b-Caryophyllene (b-Cary)	0.05	0.12	10.37	103.65
α-Humulene (Hum)	0.05	0.12	2.94	29.44	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 (α-Bbis)	0.05	0.12	ND	ND
Total Terpene Concentration								≥ 99 %	≥ 990 mg/g

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