

## ISO BG32

### ISOLATE

Serving Size: 1 ml (0.923 g)

Pixis Labs

Oregon Accreditation: OR100028

NR: Not Reported

ND: Not Detected

LOQ: Limit Of Quantitation

1 g = 10<sup>3</sup> kg = 10<sup>3</sup> mg = 10<sup>6</sup> µg

1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING	PER GRAM	REGULATORY ACTIONLEVEL
Cannabidiol (CBD)	49.60 mg/serving	992 mg/g	N/A
Total THC (d9-THC + d8-THC)	<LOQ mg/serving	<LOQ mg/g	3 mg/g
Cannabigerol (CBG)	<LOQ mg/serving	<LOQ mg/g	N/A
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	N/A
Cannabichromene (CBC)	<LOQ mg/serving	<LOQ mg/g	N/A

HEAVY METALS	PER SERVING	REGULATORY ACTIONLEVEL
Arsenic	<LOQ	10 µg/day <sup>[1]</sup>
Cadmium	<LOQ	4.1 µg/day <sup>[1]</sup>
Lead	<LOQ	3.5 µg/day <sup>[2]</sup>
Mercury	<LOQ	2 µg/day <sup>[1]</sup>

PESTICIDES	REGULATORY ACTIONLEVEL
None of the 59 pesticides tested found above limit of detection in the sample.	10 ppb <sup>[1]</sup>

RESIDUAL SOLVENTS	PER SERVING	CLASS	REGULATORY ACTIONLEVEL
Ethanol	<LOQ PPM/serving	3	5000 ppm/day <sup>[3]</sup>
Methanol	<LOQ PPM/serving	3	3000 ppm/day <sup>[3]</sup>
Isopropanol	<LOQ PPM/serving	3	5000 ppm/day <sup>[3]</sup>
Pentane	<LOQ PPM/serving	3	5000 ppm/day <sup>[3]</sup>

1. American Herbal Pharmacopoeia. (2014). *Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control*. Washington DC: AHP.
2. US Food and Drug Administration. (2019). *Lead in Food, Foodwares, and Dietary Supplements*. Washington DC: FDA. *US Food and Drug Administration*. (2019). *Lead in Food, Foodwares, and Dietary Supplements*. Washington DC: FDA.
3. International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use: ICH Harmonised Guideline. (2016). *Impurities: Guideline for Residual Solvents. Q3C (R6)*. Retrieved from: [https://www.ich.org/fileadmin/Public\\_Web\\_Site/ICH\\_Products/Guidelines/Quality/Q3C/Q3C\\_\\_R6\\_\\_Step\\_4.pdf](https://www.ich.org/fileadmin/Public_Web_Site/ICH_Products/Guidelines/Quality/Q3C/Q3C__R6__Step_4.pdf)

# 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 @BG32



#COC/INVOICE: 1158-19

Laboratory ID 190723-001	Matrix Isolate
Tested for ETZ Hayim Inc	
Sampled -	Received Jul 23, 2019
	Reported Jul 26, 2019
Analyses executed CAN, RES, PES, MET	

## CAN - Cannabinoid Profile Analysis

Analyzed Jul 26, 2019 | Instrument LC2040

Analyte	LOD %	LOQ %	Result %	Result mg/g
Cannabidiol (CBD)	0.003	0.01	ND	ND
Tetrahydrocannabinol (THC)	0.003	0.01	ND	ND
Cannabidiol (CBD)	0.003	0.01	99.20	992.02
Cannabigerol (CBG)	0.003	0.01	ND	ND
Cannabidiolic Acid (CBDA)	0.003	0.01	ND	ND
Cannabigerol Acid (CBGA)	0.003	0.01	ND	ND
Cannabinol (CBN)	0.003	0.01	ND	ND
delta-9-Tetrahydrocannabinol (THC)	0.003	0.01	ND	ND
delta-8-Tetrahydrocannabinol (Δ8-THC)	0.003	0.01	ND	ND
Cannabichromene (CBC)	0.003	0.01	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.003	0.01	ND	ND
Total THC (THCa * 0.877 + THC)			0.00	0.00
Total CBD (CBDA * 0.877 + CBD)			99.20	992.02

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<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



Authorized Signature  
*Kyle Shelton*  
Kyle Shelton  
Fri, 26 Jul 2019 16:12:55 -0700

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## RES - Residual Solvents Testing Analysis

Analyzed Jul 25, 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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# PES - Pesticides Screening Analysis

Analyzed Jul 24, 2019 | Instrument LCMS 8050

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  
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 TNTC Too Numerous to Count  
 mg/g Milligrams per gram  
 ppm Parts per million  
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Analyte	LOD ppm	LOQ ppm	Result PPM	WRL PPM	Analyte	LOD ppm	LOQ ppm	Result PPM	WRL PPM
Methamidophos	0.033	0.1	<LOD	0.1	Daminozide			<LOD	1
Acephate	0.1	0.3	<LOD	0.4	Omethoate	0.05	0.2	<LOD	0.1
Pymetrozine	0.05	0.2	<LOD	0.1	Propamocarb	0.04	0.125	<LOD	0.1
Flonicamid			<LOD	1	Aldicarb Sulfone	0.05	0.2	<LOD	0.4
Aminocarb	0.033	0.1	<LOD	0.1	Nitenpyram	0.05	0.2	<LOD	0.1
Oxamyl	0.033	0.1	<LOD	1	Fenuron	0.033	0.1	<LOD	0.1
Thiamethoxam	0.05	0.2	<LOD	0.2	3-Hydroxycarbofuran	0.075	0.25	<LOD	0.2
Mexacarbate	0.033	0.1	<LOD	0.1	Dimethoate	0.05	0.2	<LOD	0.2
Clothianidin	0.05	0.15	<LOD	0.1	Imidacloprid	0.05	0.2	<LOD	0.4
Dicrathophos	0.05	0.15	<LOD	0.1	Vamidothion	0.033	0.1	<LOD	0.1
Acetamiprid	0.033	0.1	<LOD	0.2	Fuberidazole	0.033	0.1	<LOD	0.1
Pyracarbolid	0.04	0.125	<LOD	0.1	Propoxur	0.04	0.125	<LOD	0.2
Carbetamide	0.05	0.15	<LOD	0.1	Thiophanate-Methyl	0.05	0.15	<LOD	0.1
Carbofuran	0.05	0.15	<LOD	0.2	Tricyclazole	0.05	0.15	<LOD	0.1
Oxadixyl	0.05	0.2	<LOD	0.1	Ethiofencarb	0.075	0.25	<LOD	0.1
Thiacloprid	0.05	0.15	<LOD	0.2	Carboxin	0.05	0.15	<LOD	0.1
Isoprocarb	0.05	0.2	<LOD	0.1	Carbaryl	0.05	0.2	<LOD	0.2
Tebuthiuron	0.04	0.125	<LOD	0.1	Pirimicarb	0.05	0.15	<LOD	0.1
Chlorotoluron	0.05	0.2	<LOD	0.1	Cycluron	0.05	0.15	<LOD	0.1
Isoproturon	0.05	0.15	<LOD	0.1	Fluometuron	0.05	0.2	<LOD	0.1
Diuron	0.1	0.3	<LOD	0.1	Chlorantraniliprole	0.075	0.25	<LOD	0.2
Fenamidon	0.05	0.15	<LOD	0.1	Methabenzthiazuron	0.05	0.15	<LOD	0.1
Prometon	0.05	0.15	<LOD	0.1	Diethofencarb	0.05	0.15	<LOD	0.1
Methiocarb			<LOD	0.2	Metalaxyl	0.05	0.15	<LOD	0.2
Pacllobutrazol	0.05	0.2	<LOD	0.4	Furalaxyl	0.05	0.15	<LOD	0.1
Methoprotryne	0.05	0.2	<LOD	0.1	Azoxystrobin	0.05	0.2	<LOD	0.2
Mepronil			<LOD	0.1	Chloroxuron	0.05	0.15	<LOD	0.1
Flutolanil	0.05	0.2	<LOD	0.1	Iprovalicarb	0.05	0.2	<LOD	0.1
Myclobutanil	0.075	0.25	<LOD	0.2	Mandipropamid	0.05	0.2	<LOD	0.1
Mefenacet	0.05	0.15	<LOD	0.1	Imazalil	0.1	0.4	<LOD	0.2
Bifenazate	0.05	0.2	<LOD	0.2	Fenoxycarb	0.05	0.2	<LOD	0.2
Dimethomorph	0.05	0.2	<LOD	0.1	Kresoxym-methyl	0.05	0.15	<LOD	0.4
Methoxyfenozide	0.05	0.15	<LOD	0.1	Spiromesifen	0.04	0.125	<LOD	0.2
Epoxiconazole	0.075	0.25	<LOD	0.1	Dimoxystrobin	0.05	0.15	<LOD	0.1
Spirotetramat	0.05	0.2	<LOD	0.2	Tebufenozide	0.05	0.15	<LOD	0.1
Tebuconazole	0.05	0.2	<LOD	0.4	Clofentazine			<LOD	0.2
Rotenone	0.05	0.2	<LOD	0.1	Zoxamide	0.05	0.2	<LOD	0.1
Flufenacet	0.05	0.2	<LOD	0.1	Picoxystrobin	0.05	0.2	<LOD	0.1
Carfentrazone-ethyl NH4	0.05	0.2	<LOD	0.1	Butafenacil	0.05	0.15	<LOD	0.1
Benalaxyl	0.05	0.15	<LOD	0.1	Thiobencarb	0.05	0.2	<LOD	0.1
Cyazofamid	0.05	0.15	<LOD	0.1	Pyraclostrobin	0.05	0.15	<LOD	0.1
Furathiocarb	0.05	0.2	<LOD	0.1	Trifloxystrobin	0.04	0.125	<LOD	0.2
Pyriproxyfen	0.05	0.15	<LOD	0.1	Hexythiazox	0.05	0.2	<LOD	1
Piperonyl Butoxide	0.05	0.15	<LOD	2	Triflumizole	0.05	0.15	<LOD	0.1
Propargite	0.04	0.125	<LOD	0.1	Quinoxifen	0.033	0.1	<LOD	0.1
Etoxazole	0.05	0.2	<LOD	0.2	Indoxacarb	0.05	0.2	<LOD	0.1
Pyrethrin II			<LOD	1	Pyridaben	0.05	0.2	<LOD	0.2
Pyrethrin I			<LOD	1	Fenazaquin	0.05	0.2	<LOD	0.1
Fenpyroximate	0.04	0.125	<LOD	0.4	Spinosad A	0.05	0.2	<LOD	0.2
Spinosad D	0.05	0.2	<LOD	0.2	Abamectin B1a	0.15	0.45	<LOD	0.5
Permethrin NH4	0.05	0.2	<LOD	0.2	Fludioxonil			<LOD	0.4
Fipronil	0.1	0.3	<LOD	0.4	Fluazinam	0.075	0.25	<LOD	0.1
Ethoprophos	0.1	0.4	<LOD	0.2	Chlorpyrifos	0.075	0.25	<LOD	0.2

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# MET - Heavy Metals Detection Analysis

Analyzed Jul 26, 2019 | 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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