

Certificate of Analysis

Sample Information

CTLA ID: 17194
 Date Received: 5/11/2020
 Sample Name: CBD Isolate
 Lot Number: 8235
 Customer: MM Inc.



Analysis	Method	MDL	Specification	Result	Units
Complete Micro					
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	BAM CH.4	10	Report	<10	cfu/g
<i>Escherichia coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i>	USP <2022>		Report	Negative	
Yeast & Mold	USP <2021>	100	Report	<100	cfu/g
Heavy Metals					
Arsenic	USP <2232>	.001	Report	0.025	ppm
Cadmium	USP <2232>	.001	Report	<0.001	ppm
Lead	USP <2232>	.001	Report	<0.001	ppm
Mercury	USP <2232>	.001	Report	<0.001	ppm
Cannabinoid Concentration					
Total Cannabidiol (CBD)	HPLC	0.024	Report	98.974	%
Total Tetrahydrocannabinol (THC)	HPLC	0.024	Report	ND	%
CBD	HPLC	0.024	Report	98.974	%
CBDA	HPLC	0.024	Report	ND	%
Δ9-THC	HPLC	0.024	Report	ND	%
THCA	HPLC	0.024	Report	ND	%
Δ8-THC	HPLC	0.024	Report	ND	%
THCV	HPLC	0.024	Report	ND	%
CBDV	HPLC	0.024	Report	1.016	%
CBDVA	HPLC	0.024	Report	ND	%
CBGA	HPLC	0.024	Report	ND	%

5/20/2020

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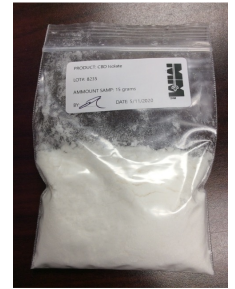

 Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.

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CBG	HPLC	0.024 Report	ND	%
CBN	HPLC	0.024 Report	ND	%
CBC	HPLC	0.024 Report	ND	%
CBL	HPLC	0.024 Report	ND	%
Pesticides (24)				
Abamectin	USP <561>	.01 Report	ND	ppm
Acequinocyl	USP <561>	.01 Report	ND	ppm
Bifenazate	USP <561>	.01 Report	ND	ppm
Bifenthrin	USP <561>	.01 Report	ND	ppm
Cyfluthrin	USP <561>	.01 Report	ND	ppm
Cypermethrin	USP <561>	.01 Report	ND	ppm
Daminozide	USP <561>	.01 Report	ND	ppm
Dimethomorph	USP <561>	.01 Report	ND	ppm
Etoxazole	USP <561>	.01 Report	ND	ppm
Fenhexamid	USP <561>	.01 Report	ND	ppm
Fonicamid	USP <561>	.01 Report	ND	ppm
Fludioxonil	USP <561>	.01 Report	ND	ppm
Imidacloprid	USP <561>	.01 Report	ND	ppm
Myclobutanil	USP <561>	.01 Report	ND	ppm
Paclobutrazol	USP <561>	.01 Report	ND	ppm
Piperonyl Butoxide	USP <561>	.01 Report	ND	ppm
Pyrethrins	USP <561>	.01 Report	ND	ppm
Quintozene	USP <561>	.01 Report	ND	ppm
Spinetoram	USP <561>	.01 Report	ND	ppm

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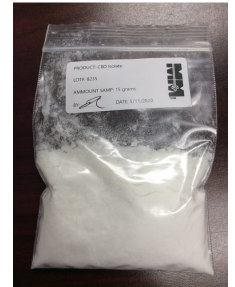

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Spinosad	USP <561>	.01 Report	ND	ppm
Spirotetramat	USP <561>	.01 Report	ND	ppm
Thiamethoxam	USP <561>	.01 Report	ND	ppm
Trifloxystrobin	USP <561>	.01 Report	ND	ppm
Plant Growth Regulators	USP <561>	.01 Report	ND	ppm
Residual Solvents, Group				
Butanes	USP <467>	92 Report	ND	ppm
Heptanes	USP <467>	92 Report	ND	ppm
Propanes	USP <467>	92 Report	ND	ppm

ND = None Detected

Total CBD = CBD + (CBDA*0.877)

Total THC = Δ9-THC + Δ8-THC

Total Cannabinoids = 99.990 %

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