

Certificate of Analysis
Sample Information

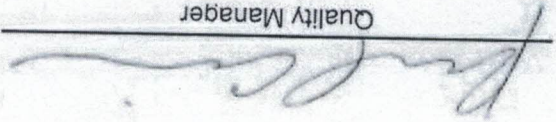
CTLA ID: 15625
Date Received: 3/16/2020
Sample Name: Roll-On 450 mg
Lot Number: 534902
Customer: MM Inc.

Analysis	Method	MDL Specification	Result	Units
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Rapid Complete Micro	USP <2021>	100 Report	<100	cfu/g
Total Coliforms	BAM CH.4	10 Report	<10	cfu/g
Escherichia coli	USP <2022>	Report	Negative	
Salmonella	USP <2022>	Report	Negative	
Staphylococcus aureus	USP <2022>	Report	Negative	
Rapid Yeast and Mold	AOAC 997.02	10 Report	<10	cfu/g

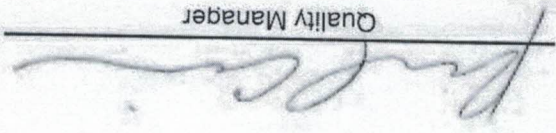
Heavy Metals	USP <2232>	0.039 Report	<0.039	ppm
Arsenic	USP <2232>	0.039 Report	<0.039	ppm
Cadmium	USP <2232>	0.039 Report	<0.039	ppm
Lead	USP <2232>	0.039 Report	<0.039	ppm
Mercury	USP <2232>	0.039 Report	<0.039	ppm

Cannabinoid Concentration	HPLC	0.229 Report	5.390	mg/g
Total Cannabidiol (CBD)	HPLC	0.229 Report	5.390	mg/g
Total Tetrahydrocannabinol (THC)	HPLC	0.229 Report	0.023	mg/g
CBD	HPLC	0.229 Report	5.390	mg/g
CBDA	HPLC	0.229 Report	ND	mg/g
Δ9-THC	HPLC	0.229 Report	ND	mg/g
THCA	HPLC	0.229 Report	ND	mg/g
Δ8-THC	HPLC	0.229 Report	ND	mg/g
THCV	HPLC	0.229 Report	ND	mg/g
CBDV	HPLC	0.229 Report	ND	mg/g

DATE: 3/23/2020
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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Residual Solvents, Group	USP <561>	Report	ND	ppm
Propanes	USP <467>	92 Report	ND	ppm
Heptanes	USP <467>	92 Report	ND	ppm
Butanes	USP <467>	92 Report	ND	ppm
Plant Growth Regulators	USP <561>	.01 Report	ND	ppm
Trifloxystrobin	USP <561>	.01 Report	ND	ppm
Thiamethoxam	USP <561>	.01 Report	ND	ppm
Spirotetramat	USP <561>	.01 Report	ND	ppm
Spinosad	USP <561>	.01 Report	ND	ppm
Spinetoram	USP <561>	.01 Report	ND	ppm
Quintozene	USP <561>	.01 Report	ND	ppm
Pyrethrins	USP <561>	.01 Report	ND	ppm
Piperonyl Butoxide	USP <561>	.01 Report	ND	ppm
Paclobutrazol	USP <561>	.01 Report	ND	ppm
Myclobutanil	USP <561>	.01 Report	ND	ppm
Imidacloprid	USP <561>	.01 Report	ND	ppm
Fludioxonil	USP <561>	.01 Report	ND	ppm
Fenhexamid	USP <561>	.01 Report	ND	ppm
Fenhexamid	USP <561>	.01 Report	ND	ppm
Etoazazole	USP <561>	.01 Report	ND	ppm
Dimethomorph	USP <561>	.01 Report	ND	ppm
Daminozide	USP <561>	.01 Report	ND	ppm
Cypermethrin	USP <561>	.01 Report	ND	ppm
Cyfluthrin	USP <561>	.01 Report	ND	ppm
Bifenthrin	USP <561>	.01 Report	ND	ppm
Bifenazate	USP <561>	.01 Report	ND	ppm
Acetamiprid	USP <561>	.01 Report	ND	ppm
Abamectin	USP <561>	.01 Report	ND	ppm
Pesticides (24)	HPLC	0.229 Report	ND	mg/g
CBL	HPLC	0.229 Report	ND	mg/g
CBC	HPLC	0.229 Report	ND	mg/g
CBN	HPLC	0.229 Report	ND	mg/g
CBG	HPLC	0.229 Report	ND	mg/g
CBGA	HPLC	0.229 Report	ND	mg/g
CBDVA	HPLC	0.229 Report	ND	mg/g

ND = None Detected

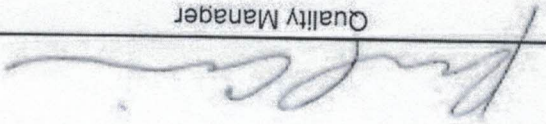
Total CBD = CBD + (CBDA*0.877)

Total THC = Δ9-THC + Δ8-THC

Total Cannabinoids = 5.390 mg/g

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