

CTLA ID: 10123
 Date Received: 8/15/2019
 Sample Name: Kannaway Premium Hemp Oil 1000 mg 4 oz
 Lot Number: 22519
 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	0.010	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	7.097 Report	1,026.101	mg/4 oz
Total Tetrahydrocannabinol (THC)	HPLC	0.006 Report	0.010	%
CBD	HPLC	7.097 Report	709.582	mg/4 oz
CBDA	HPLC	7.097 Report	360.910	mg/4 oz
Δ9-THC	HPLC	7.097 Report	11.684	mg/4 oz
THCA	HPLC	7.097 Report	ND	mg/4 oz
Δ8-THC	HPLC	7.097 Report	ND	mg/4 oz
THCV	HPLC	7.097 Report	ND	mg/4 oz
CBDV	HPLC	7.097 Report	ND	mg/4 oz
CBDVA	HPLC	7.097 Report	ND	mg/4 oz
CBGA	HPLC	7.097 Report	ND	mg/4 oz



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.

Certificate of Analysis

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CBG	HPLC	7.097 Report	10.725	mg/4 oz
CBN	HPLC	7.097 Report	ND	mg/4 oz
CBC	HPLC	7.097 Report	24.833	mg/4 oz
CBL	HPLC	7.097 Report	ND	mg/4 oz
Pesticides				
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
Flonicamid	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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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				
Butanes	USP <467>	56 Report	ND	ppm
Heptanes	USP <467>	56 Report	ND	ppm
Propanes	USP <467>	56 Report	ND	ppm

ND = None Detected

Total CBD = CBD + (CBDA*0.877)

Total THC = Δ9-THC + Δ8-THC

4 oz = 114.519 g

Density = 0.954 g/ml

Total Cannabinoids = 1,132.622 mg/4 oz


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