

CTLA ID: 10089
 Date Received: 8/13/2019
 Sample Name: Kannaway Premium Hemp Oil 1500 mg 4 oz
 Lot Number: KW19719
 Customer: MM Inc.

| Analysis | Method | MDL Specification | Result | Units |
|----------------------------------|-------------|-------------------|-----------|---------|
| Rapid 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 | |
| Rapid Yeast and Mold | AOAC 997.02 | 10 Report | <10 | cfu/g |
| Heavy Metals | | | | |
| Arsenic | USP <2232> | 0.059 Report | <0.059 | ppm |
| Cadmium | USP <2232> | 0.059 Report | <0.059 | ppm |
| Lead | USP <2232> | 0.059 Report | <0.059 | ppm |
| Mercury | USP <2232> | 0.059 Report | <0.059 | ppm |
| Cannabinoid Concentration | | | | |
| Total Cannabidiol (CBD) | HPLC | 6.977 Report | 1,556.290 | mg/4 oz |
| Total Tetrahydrocannabinol (THC) | HPLC | 0.006 Report | 0.087 | % |
| CBD | HPLC | 6.977 Report | 1,249.606 | mg/4 oz |
| CBDA | HPLC | 6.977 Report | 349.697 | mg/4 oz |
| Δ9-THC | HPLC | 6.977 Report | 9.888 | mg/4 oz |
| THCA | HPLC | 6.977 Report | ND | mg/4 oz |
| Δ8-THC | HPLC | 6.977 Report | ND | mg/4 oz |
| THCV | HPLC | 6.977 Report | ND | mg/4 oz |
| CBDV | HPLC | 6.977 Report | ND | mg/4 oz |
| CBDVA | HPLC | 6.977 Report | ND | mg/4 oz |
| CBGA | HPLC | 6.977 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.

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| CBG | HPLC | 6.977 Report | ND | mg/4 oz |
| CBN | HPLC | 6.977 Report | ND | mg/4 oz |
| CBC | HPLC | 6.977 Report | 22.470 | mg/4 oz |
| CBL | HPLC | 6.977 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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Certificate of Analysis

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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> | 53 Report | ND | ppm |
| Heptanes | USP <467> | 53 Report | ND | ppm |
| Propanes | USP <467> | 53 Report | ND | ppm |

ND = None Detected

Total CBD = CBD + (CBDA*0.877)

Total THC = Δ9-THC + Δ8-THC

4 oz = 113.398 g

Density = 0.946 g/ml

Total Cannabinoids = 1,644.525 mg/4 oz



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