



Atlas Agriscience, LLC

Certificate of Analysis



ATLAS HEMP, LLC

LAB#:WA58447-2

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Received: 03/08/2019
Analyzed: 07/16/2019
Reported: 11/18/2019

PRESIDENTIAL OG KUSH

The is the lab results for the Presidential OG Kush Terpene Sample, ID:60

POTENCY

Total potential THC: 0
Total potential CBD: 0
Total cannabinoids: 0

Laboratory note : This product contains terpenes and terpenoids. It does not contain cannabinoids.



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(253) 277-3563
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Jim Roe
Scientific Director

Ben Hanson
Director QA/QC

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TERPENES

| % Total | mass % | mg/g | LOD | LOQ | GCMS | | | | |
|---------------------|--------|-------|---------|--------|---------------------|--------|-------|-------|------|
| | | | | | mass % | mg/g | LOD | LOQ | |
| Menthol | 0 | 0 | 0.03 | 0.09 | Camphor | 0 | 0 | 0.01 | 0.09 |
| Eucalyptol | 0 | 0 | 0.05 | 0.19 | Linalool | 0.0018 | 0.018 | 0.04 | 0.13 |
| Camphene | 0.0047 | 0.047 | 0.008 | 0.09 | alpha-Pinene | 0.108 | 1.08 | 0.006 | 0.02 |
| Pulegone | 0 | 0 | 0.03 | 0.09 | alpha-Phellandrene | 0.0002 | 0.002 | 0.01 | 0.05 |
| gamma-Terpinene | 0.0001 | 0.001 | 0.01 | 0.05 | alpha-Terpinene | 0 | 0 | 0.03 | 0.09 |
| p-Cymene | 0.0003 | 0.003 | 0.01 | 0.09 | Citronellol | 0 | 0 | 0.04 | 0.09 |
| Terpinolene | 0.0042 | 0.042 | 0.00016 | 0.0013 | Fenchone | 0.0003 | 0.003 | 0.01 | 0.09 |
| beta-Pinene | 0.0755 | 0.755 | 0.03 | 0.05 | Fenchol | 0.0034 | 0.034 | 0.02 | 0.09 |
| Terpineol | 0.0004 | 0.004 | 0.07 | 0.23 | Sabinene | 0 | 0 | 0.1 | 0.32 |
| 3-Carene | 0.0003 | 0.003 | 0.01 | 0.09 | Myrcene | 0.6594 | 6.594 | 0.02 | 0.07 |
| Borneol | 0.0001 | 0.001 | 0.03 | 0.09 | Cedrol | 0 | 0 | 0.03 | 0.09 |
| Alloaromadendrene | 0 | 0 | 0.03 | 0.09 | Isopulegol | 0 | 0 | 0.03 | 0.09 |
| Guaiol | 0 | 0 | 0.01 | 0.09 | D-Limonene | 0.1167 | 1.167 | 0.03 | 0.09 |
| alpha-Cedrene | 0 | 0 | 0.03 | 0.32 | Geraniol | 0 | 0 | 0.03 | 0.09 |
| Nerol | 0 | 0 | 0.03 | 0.09 | Geranyl Acetate | 0 | 0 | 0.03 | 0.09 |
| alpha-Bisabolol | 0 | 0 | 0.03 | 0.09 | Caryophyllene oxide | 0.0003 | 0.003 | 0.03 | 0.09 |
| Phytol | 0 | 0 | 0.03 | 0.09 | BetaCaryophyllene | 0.0074 | 0.074 | 0.03 | 0.05 |
| alpha-Farnesene | 0 | 0 | 0.03 | 0.09 | beta-Farnesene | 0 | 0 | 0.03 | 0.09 |
| Humulene | 0.0012 | 0.012 | 0.03 | 0.11 | beta-Ocimene | 0 | 0 | 0.03 | 0.09 |
| Nerolidol | 0 | 0 | 0.03 | 0.09 | cis-Nerolidol | 0 | 0 | 0.03 | 0.09 |
| alpha-Ocimene | 0 | 0 | 0.03 | 0.09 | cis-beta-ocimene | 0 | 0 | 0.03 | 0.09 |
| Isoborneol, (-)- | 0 | 0 | 0.008 | 0.09 | Valencene | 0.0002 | 0.002 | 0.03 | 0.09 |
| Sabinene Hydrate | 0 | 0 | 0.03 | 0.09 | | | | | |
| cineole | < LOD | < LOD | 0.03 | 0.09 | cis-2-Pinanol | < LOD | < LOD | 0.03 | 0.09 |
| 4-Carvomenthenol | < LOD | < LOD | 0.03 | 0.09 | gamma-Terpineol | < LOD | < LOD | 0.03 | 0.09 |
| Dronabinol | < LOD | < LOD | 0.03 | 0.09 | Limonene | < LOD | < LOD | 0.03 | 0.05 |
| 4-Thujanol | < LOD | < LOD | 0.08 | 0.27 | alpha-Bergamotene | < LOD | < LOD | 0.03 | 0.09 |
| beta-Thujone | < LOD | < LOD | 0.03 | 0.09 | β-Eudesmol | < LOD | < LOD | 0.02 | 0.09 |
| alpha-Bulnesene | < LOD | < LOD | 0.03 | 0.09 | D-Menthol | < LOD | < LOD | 0.03 | 0.09 |
| Carvone | < LOD | < LOD | 0.03 | 0.09 | beta-Thujene | < LOD | < LOD | 0.03 | 0.09 |
| Eudesmadiene | < LOD | < LOD | 0.03 | 0.09 | delta8-THC | < LOD | < LOD | 0.03 | 0.09 |
| Cannabidiol | < LOD | < LOD | 0.03 | 0.09 | Bisabolene | < LOD | < LOD | 0.03 | 0.11 |
| Germacrene B | < LOD | < LOD | 0.03 | 0.09 | Cannabigerol | < LOD | < LOD | 0.03 | 0.09 |
| alpha-Guaiene | < LOD | < LOD | 0.03 | 0.09 | Caryophyllene | < LOD | < LOD | 0.03 | 0.09 |
| trans-2-Pinanol | < LOD | < LOD | 0.03 | 0.09 | gamma-Elemene | < LOD | < LOD | 0.03 | 0.09 |
| Cannabigerolic Acid | < LOD | < LOD | 0.03 | 0.09 | beta-Elemene | < LOD | < LOD | 0.03 | 0.09 |
| α-Thujone | < LOD | < LOD | 0.03 | 0.09 | d9-THC | < LOD | < LOD | 0.03 | 0.09 |

Laboratory note : This product contains terpenes and terpenoids. It does not contain cannabinoids.



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CANNABINOIDS

| | | | | | | | | | HPLC-PDA | | |
|--------|--------|------|------|------|--------|------|-----|------|----------|--|--|
| | mass % | mg/g | LOD | LOQ | mass % | mg/g | LOD | LOQ | | | |
| Δ9-THC | 0 | 0 | 0.01 | 0.03 | Δ8-THC | 0 | 0 | 0.01 | 0.03 | | |
| THCa | 0 | 0 | 0.01 | 0.03 | THCV | 0 | 0 | 0.01 | 0.03 | | |
| CBD | 0 | 0 | 0.01 | 0.03 | THCVa | 0 | 0 | 0.01 | 0.03 | | |
| CBDa | 0 | 0 | 0.01 | 0.03 | CBDV | 0 | 0 | 0.01 | 0.03 | | |
| CBG | 0 | 0 | 0.01 | 0.03 | CBDVa | 0 | 0 | 0.01 | 0.03 | | |
| CBGa | 0 | 0 | 0.01 | 0.03 | CBCV | 0 | 0 | 0.01 | 0.03 | | |
| CBN | 0 | 0 | 0.01 | 0.03 | CBCO | 0 | 0 | 0.01 | 0.03 | | |
| CBNa | 0 | 0 | 0.01 | 0.03 | CBL | 0 | 0 | 0.01 | 0.03 | | |
| CBC | 0 | 0 | 0.01 | 0.03 | CBLa | 0 | 0 | 0.01 | 0.03 | | |
| CBCa | 0 | 0 | 0.01 | 0.03 | CBT | 0 | 0 | 0.01 | 0.03 | | |

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PESTICIDES

| | | | | | | | |
|---------------------|-------|-------|-------|------------------|-------|-------|-------|
| 3-Hydroxycarbofur | < LOD | 0.075 | 0.25 | Abamectin B1a | < LOD | 0.15 | 0.45 |
| Acephate | < LOD | 0.1 | 0.3 | Acetamiprid | < LOD | 0.033 | 0.1 |
| Aldicarb Sulfone | < LOD | 0.05 | 0.2 | Aldicarb | < LOD | 0.075 | 0.25 |
| Aminocarb | < LOD | 0.033 | 0.1 | Azoxystrobin | < LOD | 0.05 | 0.2 |
| Benalaxyl | < LOD | 0.05 | 0.15 | Bifenthrin | < LOD | 0.05 | 0.2 |
| Bifenazate | < LOD | 0.05 | 0.2 | Boscalid | < LOD | | |
| Butafenacil | < LOD | 0.05 | 0.15 | Carbaryl | < LOD | 0.05 | 0.2 |
| Carbetamide | < LOD | 0.05 | 0.15 | Carbofuran | < LOD | 0.05 | 0.15 |
| Carboxin | < LOD | 0.05 | 0.15 | Carfentrazone-et | < LOD | 0.05 | 0.2 |
| Chlorantraniliprole | < LOD | 0.075 | 0.25 | Chlorotoluron | < LOD | 0.05 | 0.2 |
| Chloroxuron | < LOD | 0.05 | 0.15 | Chlorpyrifos | < LOD | 0.075 | 0.25 |
| Clofentezine | < LOD | | | Clothianidin | < LOD | 0.05 | 0.15 |
| Cyazofamid | < LOD | 0.05 | 0.15 | Cycluron | < LOD | 0.05 | 0.15 |
| Diazinon | < LOD | 0.05 | 0.2 | Diccrotophos | < LOD | 0.05 | 0.15 |
| Diethofencarb | < LOD | 0.05 | 0.15 | Dimethoate | < LOD | 0.05 | 0.2 |
| Dimethomorph | < LOD | 0.05 | 0.2 | Dimoxystrobin | < LOD | 0.05 | 0.15 |
| Diuron | < LOD | 0.1 | 0.3 | Epoxiconazole | < LOD | 0.075 | 0.25 |
| Ethiofencarb | < LOD | 0.075 | 0.25 | Ethoprophos | < LOD | 0.1 | 0.4 |
| Etofenprox | < LOD | 0.04 | 0.125 | Etoxazole | < LOD | 0.05 | 0.2 |
| Fenamidone | < LOD | 0.05 | 0.15 | Fenazaquin | < LOD | 0.05 | 0.2 |
| Fenoxycarb | < LOD | 0.05 | 0.2 | Fenpyroximate | < LOD | 0.04 | 0.125 |
| Fenuron | < LOD | 0.033 | 0.1 | Fipronil | < LOD | 0.1 | 0.3 |
| Flonicamid | < LOD | | | Fluazinam | < LOD | 0.075 | 0.25 |
| Fludioxonil | < LOD | | | Flufenacet | < LOD | 0.05 | 0.2 |
| Fluometuron | < LOD | 0.05 | 0.2 | Flutolanil | < LOD | 0.05 | 0.2 |
| Fuberidazole | < LOD | 0.033 | 0.1 | Furalaxyl | < LOD | 0.05 | 0.15 |
| Furathiocarb | < LOD | 0.05 | 0.2 | Hexythiazox | < LOD | 0.05 | 0.2 |
| Imazalil | < LOD | 0.1 | 0.4 | Imidacloprid | < LOD | 0.05 | 0.2 |
| Indoxacarb | < LOD | 0.05 | 0.2 | Iprovalicarb | < LOD | 0.05 | 0.2 |
| Isoprocarb | < LOD | 0.075 | 0.25 | Isoproturon | < LOD | 0.05 | 0.15 |
| Kresoxym-methyl | < LOD | 0.1 | 0.3 | Malathion | < LOD | 0.05 | 0.2 |
| Mandipropamid | < LOD | 0.05 | 0.2 | Mefenacet | < LOD | 0.05 | 0.15 |
| Metalaxyl | < LOD | 0.033 | 0.1 | Methabenzthiazu | < LOD | 0.05 | 0.15 |
| Methamidophos | < LOD | 0.05 | 0.15 | Methiocarb | < LOD | | |
| Methomyl | < LOD | 0.05 | 0.2 | Methoprotryne | < LOD | 0.05 | 0.2 |
| Methoxyfenozide | < LOD | 0.05 | 0.15 | Mexacarbate | < LOD | 0.033 | 0.1 |
| Monocrotophos | < LOD | 0.05 | 0.15 | Myclobutanil | < LOD | 0.075 | 0.25 |
| Nitenpyram | < LOD | 0.05 | 0.15 | Omethoate | < LOD | 0.05 | 0.2 |
| Oxadixyl | < LOD | 0.075 | 0.25 | Oxamyl | < LOD | 0.033 | 0.1 |
| Paclobutrazol | < LOD | 0.05 | 0.15 | Permethrin | < LOD | 0.05 | 0.2 |
| Phosmet | < LOD | | | Picoxystrobin | < LOD | 0.05 | 0.2 |
| Piperonyl Butoxide | < LOD | 0.05 | 0.15 | Pirimicarb | < LOD | 0.05 | 0.15 |
| Prometon | < LOD | 0.05 | 0.2 | Propamocarb | < LOD | 0.04 | 0.125 |
| Propargite | < LOD | 0.05 | 0.15 | Propoxur | < LOD | 0.04 | 0.125 |
| Pymetrozine | < LOD | 0.05 | 0.2 | Pyracarbolid | < LOD | 0.04 | 0.125 |
| Pyraclostrobin | < LOD | 0.1 | 0.3 | Pyrethrin I | < LOD | | |
| Pyrethrin II | < LOD | 0.075 | 0.25 | Pyridaben | < LOD | 0.05 | 0.2 |
| Pyriproxyfen | < LOD | 0.04 | 0.125 | Quinoxifen | < LOD | 0.033 | 0.1 |
| Rotenone | < LOD | 0.05 | 0.15 | Spinosad A | < LOD | 0.05 | 0.2 |
| Spinosad D | < LOD | 0.05 | 0.2 | Spiromesifen | < LOD | 0.04 | 0.125 |
| Spirotetramat | < LOD | 0.033 | 0.1 | Spiroxamine | < LOD | 0.05 | 0.15 |
| Tebuconazole | < LOD | | | Tebufenozide | < LOD | 0.05 | 0.15 |
| Tebuthiuron | < LOD | | | Thiacloprid | < LOD | 0.05 | 0.15 |
| Thiamethoxam | < LOD | 0.05 | 0.2 | Thiobencarb | < LOD | 0.05 | 0.2 |
| Thiophanate-Methy | < LOD | 0.033 | 0.1 | Tricyclazole | < LOD | 0.05 | 0.15 |
| Trifloxystrobin | < LOD | 0.05 | 0.2 | Triflumizole | < LOD | 0.05 | 0.15 |
| Uniconazole | < LOD | 0.1 | 0.4 | Vamidothion | < LOD | 0.033 | 0.1 |
| Zoxamide | < LOD | 0.05 | 0.2 | | | | |



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HEAVY METALS

| | µg/g | LOD | LOQ |
|--------------|-------|-------|-------|
| Arsenic (As) | < LOD | 0.004 | 0.012 |
| Cadmium (Cd) | < LOD | 0.002 | 0.008 |
| Lead (Pb) | < LOD | 0.002 | 0.004 |
| Mercury (Hg) | < LOD | 0.004 | 0.018 |

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