



# Atlas Agriscience, LLC

## Certificate of Analysis



### ATLAS HEMP, LLC

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LAB#:200630-14

Received: 06/29/2019  
Analyzed: 11/07/2019  
Reported: 03/10/2020

### ORANGE BLOSSOM

The is the lab results for the Orange Blossom Terpene Sample, ID:165

### 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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TERPENES

GCMS

| 0.757% Total        | mass % | mg/g  | LOD   | LOQ  | mass %                   | mg/g  | LOD   | LOQ            |
|---------------------|--------|-------|-------|------|--------------------------|-------|-------|----------------|
| beta-Pinene         | 0.013  | 0.13  | 0.03  | 0.05 | trans-beta-Ocimene       | 0.016 | 0.16  |                |
| Linalool            | 0.078  | 0.78  | 0.04  | 0.13 | Myrcene                  | 0.309 | 3.09  | 0.02 0.07      |
| β-Eudesmol          | 0.014  | 0.14  | 0.02  | 0.09 | D-Limonene               | 0.029 | 0.29  | 0.03 0.09      |
| alpha-Bisabolol     | 0.105  | 1.05  | 0.03  | 0.09 | Bisabolene               | 0.087 | 0.87  | 0.03 0.11      |
| BetaCaryophyllene   | 0.097  | 0.97  | 0.03  | 0.05 | Humulene                 | 0.01  | 0.1   | 0.03 0.11      |
| Menthol             | < LOD  | < LOD | 0.03  | 0.09 | Camphor                  | < LOD | < LOD | 0.01 0.09      |
| Eucalyptol          | < LOD  | < LOD | 0.05  | 0.19 | Camphene                 | < LOD | < LOD | 0.008 0.09     |
| alpha-Pinene        | < LOD  | < LOD | 0.006 | 0.02 | Pulegone                 | < LOD | < LOD | 0.03 0.09      |
| alpha-Phellandrene  | < LOD  | < LOD | 0.01  | 0.05 | gamma-Terpinene          | < LOD | < LOD | 0.01 0.05      |
| alpha-Terpinene     | < LOD  | < LOD | 0.03  | 0.09 | p-Cymene                 | < LOD | < LOD | 0.01 0.09      |
| Citronellol         | < LOD  | < LOD | 0.04  | 0.09 | cineole                  | < LOD | < LOD | 0.03 0.09      |
| cis-2-Pinanol       | < LOD  | < LOD | 0.03  | 0.09 | Cycloheptanone           | < LOD | < LOD |                |
| 4-Carvomenthenol    | < LOD  | < LOD | 0.03  | 0.09 | Terpinolene              | < LOD | < LOD | 0.00016 0.0013 |
| gamma-Terpineol     | < LOD  | < LOD | 0.03  | 0.09 | 1,1-Dimethoxycyclohexane | < LOD | < LOD |                |
| Fenchone            | < LOD  | < LOD | 0.01  | 0.09 | Fenchol                  | < LOD | < LOD | 0.02 0.09      |
| Dronabinol          | < LOD  | < LOD | 0.03  | 0.09 | Terpineol                | < LOD | < LOD | 0.07 0.23      |
| Sabinene            | < LOD  | < LOD | 0.1   | 0.32 | Limonene                 | < LOD | < LOD | 0.03 0.05      |
| 3-Carene            | < LOD  | < LOD | 0.01  | 0.09 | 4-Thujanol               | < LOD | < LOD | 0.08 0.27      |
| Borneol             | < LOD  | < LOD | 0.03  | 0.09 | Cedrol                   | < LOD | < LOD | 0.03 0.09      |
| alpha-Bergamotene   | < LOD  | < LOD | 0.03  | 0.09 | Alloaromadendrene        | < LOD | < LOD | 0.03 0.09      |
| beta-Thujone        | < LOD  | < LOD | 0.03  | 0.09 | alpha-Bulnesene          | < LOD | < LOD | 0.03 0.09      |
| D-Menthol           | < LOD  | < LOD | 0.03  | 0.09 | Isopulegol               | < LOD | < LOD | 0.03 0.09      |
| Guaiol              | < LOD  | < LOD | 0.01  | 0.09 | Carvone                  | < LOD | < LOD | 0.03 0.09      |
| alpha-Cedrene       | < LOD  | < LOD | 0.03  | 0.32 | beta-Thujene             | < LOD | < LOD | 0.03 0.09      |
| Eudesmadiene        | < LOD  | < LOD | 0.03  | 0.09 | Geraniol                 | < LOD | < LOD | 0.03 0.09      |
| delta8-THC          | < LOD  | < LOD | 0.03  | 0.09 | Nerol                    | < LOD | < LOD | 0.03 0.09      |
| Cannabidiol         | < LOD  | < LOD | 0.03  | 0.09 | Geranyl Acetate          | < LOD | < LOD | 0.03 0.09      |
| Caryophyllene oxide | < LOD  | < LOD | 0.03  | 0.09 | Phytol                   | < LOD | < LOD | 0.03 0.09      |
| alpha-Farnesene     | < LOD  | < LOD | 0.03  | 0.09 | beta-Farnesene           | < LOD | < LOD | 0.03 0.09      |
| Germacrene B        | < LOD  | < LOD | 0.03  | 0.09 | beta-Ocimene             | < LOD | < LOD | 0.03 0.09      |
| Nerolidol           | < LOD  | < LOD | 0.03  | 0.09 | Cannabigerol             | < LOD | < LOD | 0.03 0.09      |
| alpha-Guaiene       | < LOD  | < LOD | 0.03  | 0.09 | cis-Nerolidol            | < LOD | < LOD | 0.03 0.09      |
| alpha-Ocimene       | < LOD  | < LOD | 0.03  | 0.09 | cis-beta-ocimene         | < LOD | < LOD | 0.03 0.09      |
| Caryophyllene       | < LOD  | < LOD | 0.03  | 0.09 | trans-2-Pinanol          | < LOD | < LOD | 0.03 0.09      |
| Isoborneol, (-)-    | < LOD  | < LOD | 0.008 | 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      |
| Valencene           | < LOD  | < LOD | 0.03  | 0.09 | α-Thujone                | < LOD | < LOD | 0.03 0.09      |
| Sabinene Hydrate    | < 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   | Dicrctophos      | < 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-Meth    | < 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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