



Atlas Agriscience, LLC

Certificate of Analysis



ATLAS HEMP, LLC

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1-800-801-ATLAS

LAB#:210124

Received: 09/25/2021
Analyzed: 09/28/2021
Reported: 09/30/2021

GATSBY

The is the lab results for the GATSBY Terpene Sample, ID:263

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.



18251 Cascade Avenue S
Tukwila, WA 98188
(253) 277-3563
www.atlasagriscience.com

Jim Roe
Scientific Director

Ben Hanson
Director QA/QC

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FLAVORS & AROMATIC COMPOUNDS

| 62.631% Total | µg/g | LOD | LOQ | | µg/g | a | LOD | HPLC-F |
|---------------------|------|-------|-------|------------------|------|---|-------|--------|
| | | | | | | | | LOQ |
| Cis-3-Hexen-1-ol | 0 | 0.001 | 0.001 | Methyl hexanoate | 0 | | 0.001 | 0.001 |
| Methyl anthranilate | 0 | 0.001 | 0.001 | Ethyl propionate | 0 | | 0.001 | 0.001 |
| Isoamyl butyrate | 0 | 0.001 | 0.001 | Furaneol | 0 | | 0.001 | 0.001 |
| Octanal | 0 | 0.001 | 0.001 | Propionate | 0 | | 0.001 | 0.001 |
| Citral | 0 | 0.001 | 0.001 | Decanal | 0 | | 0.001 | 0.001 |
| Isoamyl acetate | 0 | 0.001 | 0.001 | | 0 | | 0.001 | 0.001 |

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TERPENES

GCMS

| 62.631% Total | mass % | mg/g | LOD | LOQ | | mass % | mg/g | LOD | LOQ |
|--------------------------|--------|--------|---------|--------|-------------------------|--------|-------|-------|------|
| Eucalyptol | 0.087 | 0.87 | 0.05 | 0.19 | 3-Carene | 0.016 | 0.16 | 0.01 | 0.09 |
| Myrcene | 37.708 | 377.08 | 0.02 | 0.07 | Borneol | 0.019 | 0.19 | 0.03 | 0.09 |
| D-Menthol | 0.009 | 0.09 | 0.03 | 0.09 | D-Limonene | 4.991 | 49.91 | 0.03 | 0.09 |
| Caryophyllene oxide | 0.04 | 0.4 | 0.03 | 0.09 | Bisabolene | 0.174 | 1.74 | 0.03 | 0.11 |
| BetaCaryophyllene | 2.368 | 23.68 | 0.03 | 0.05 | beta-Farnesene | 0.038 | 0.38 | 0.03 | 0.09 |
| Humulene | 0.384 | 3.84 | 0.03 | 0.11 | cis-Nerolidol | 0.035 | 0.35 | 0.03 | 0.09 |
| alpha-Ocimene | 0.113 | 1.13 | 0.03 | 0.09 | Terpineol | 0.046 | 0.46 | 0.07 | 0.23 |
| Fenchol | 0.144 | 1.44 | 0.02 | 0.09 | Linalool | 0.374 | 3.74 | 0.04 | 0.13 |
| Camphene | 0.194 | 1.94 | 0.008 | 0.09 | alpha-Pinene | 9.776 | 97.76 | 0.006 | 0.02 |
| alpha-Phellandrene | 0.027 | 0.27 | 0.01 | 0.05 | gamma-Terpinene | 0.023 | 0.23 | 0.01 | 0.05 |
| alpha-Terpinene | 0.024 | 0.24 | 0.03 | 0.09 | p-Cymene | 0.013 | 0.13 | 0.01 | 0.09 |
| alpha-Bisabolol | 0.016 | 0.16 | 0.03 | 0.09 | 4-Carvomenthenol | 0.009 | 0.09 | 0.03 | 0.09 |
| Terpinolene | 0.43 | 4.3 | 0.00016 | 0.0013 | Fenchone | 0.038 | 0.38 | 0.01 | 0.09 |
| beta-Pinene | 3.693 | 36.93 | 0.03 | 0.05 | trans-beta-Ocimene | 1.842 | 18.42 | | |
| Octane | < LOD | < LOD | | | 1-Octanol | < LOD | < LOD | | |
| Toluene | < LOD | < LOD | | | Menthol | < LOD | < LOD | 0.03 | 0.09 |
| Camphor | < LOD | < LOD | 0.01 | 0.09 | CBN | < LOD | < LOD | | |
| THC | < LOD | < LOD | | | Bornyl acetate | < LOD | < LOD | | |
| Pulegone | < LOD | < LOD | 0.03 | 0.09 | Thymol | < LOD | < LOD | | |
| Methyl eugenol | < LOD | < LOD | | | Butyl butyrate | < LOD | < LOD | | |
| 2-Heptanone | < LOD | < LOD | | | 1-Hexanol | < LOD | < LOD | | |
| 1-Heptanol | < LOD | < LOD | | | Heptanal | < LOD | < LOD | | |
| Methyl chavicol | < LOD | < LOD | | | Citronellol | < LOD | < LOD | 0.04 | 0.09 |
| Hexyl acetate | < LOD | < LOD | | | 6-Methyl-5-hepten-2-one | < LOD | < LOD | | |
| cineole | < LOD | < LOD | 0.03 | 0.09 | cis-2-Pinanol | < LOD | < LOD | 0.03 | 0.09 |
| Carvacrol | < LOD | < LOD | | | Cycloheptanone | < LOD | < LOD | | |
| beta-Cadinene | < LOD | < LOD | | | gamma-Terpineol | < LOD | < LOD | 0.03 | 0.09 |
| 1,1-Dimethoxycyclohexane | < LOD | < LOD | | | Dronabinol | < LOD | < LOD | 0.03 | 0.09 |
| Hexyl isobutyrate | < LOD | < LOD | | | Hexyl butyrate | < LOD | < LOD | | |
| alpha-Thujene | < LOD | < LOD | | | Sabinene | < LOD | < LOD | 0.1 | 0.32 |
| Limonene | < LOD | < LOD | 0.03 | 0.05 | Hexyl hexanoate | < LOD | < LOD | | |
| CBC | < LOD | < LOD | | | Nonanal | < LOD | < LOD | | |
| 4-Thujanol | < LOD | < LOD | 0.08 | 0.27 | Cedrol | < LOD | < LOD | 0.03 | 0.09 |
| Perillene | < LOD | < LOD | | | alpha-Bergamotene | < LOD | < LOD | 0.03 | 0.09 |
| Hexyl propanoate | < LOD | < LOD | | | Bulnesol | < LOD | < LOD | | |
| Alloaromadendrene | < LOD | < LOD | 0.03 | 0.09 | beta-Thujone | < LOD | < LOD | 0.03 | 0.09 |
| β-Eudesmol | < LOD | < LOD | 0.02 | 0.09 | Elemol | < LOD | < LOD | | |
| gamma-Cadinene | < LOD | < LOD | | | Ledol | < LOD | < LOD | | |
| THCV | < LOD | < LOD | | | delta-Guaiene | < LOD | < LOD | 0.03 | 0.09 |
| THCA | < LOD | < LOD | | | Camphene hydrate | < LOD | < LOD | | |
| CBDA | < LOD | < LOD | | | Isopulegol | < LOD | < LOD | 0.03 | 0.09 |
| Guaiol | < LOD | < LOD | 0.01 | 0.09 | Longifolene | < LOD | < LOD | | |
| Hinesol | < LOD | < LOD | | | Carvone | < LOD | < LOD | 0.03 | 0.09 |
| alpha-Cedrene | < LOD | < LOD | 0.03 | 0.32 | alpha-Cubebene | < LOD | < LOD | | |
| beta-Selinene | < LOD | < LOD | | | alpha-Ylangene | < LOD | < LOD | | |
| (+)-trans-Limonene oxide | < LOD | < LOD | | | beta-Thujene | < LOD | < LOD | 0.03 | 0.09 |
| Junipercamphor | < LOD | < LOD | | | gamma-Patchoulene | < LOD | < LOD | | |
| gamma-Selinene | < LOD | < LOD | | | Eudesmadiene | < LOD | < LOD | 0.03 | 0.09 |
| 6/9-Guaiadiene | < LOD | < LOD | | | alpha-Panasinsen | < LOD | < LOD | | |
| Geraniol | < LOD | < LOD | 0.03 | 0.09 | delta8-THC | < LOD | < LOD | 0.03 | 0.09 |

| | | | | | | | | | |
|------------------------|-------|-------|-------|------|-------------------------|-------|-------|------|------|
| Nerol | < LOD | < LOD | 0.03 | 0.09 | CBD | < LOD | < LOD | 0.03 | 0.09 |
| Geranyl Acetate | < LOD | < LOD | 0.03 | 0.09 | Phytol | < LOD | < LOD | 0.03 | 0.09 |
| 5.78 Ethyl tiglate | < LOD | < LOD | | | alpha-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 | CBG | < LOD | < LOD | 0.03 | 0.09 |
| alpha-Guaiene | < 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 |
| (Z)-3-Hexenyl butyrate | < LOD | < LOD | | | Hotrienol | < LOD | < LOD | | |
| Isoborneol, (-)- | < LOD | < LOD | 0.008 | 0.09 | Zonarene | < LOD | < LOD | | |
| Selina-3!7(11)-diene | < LOD | < LOD | | | trans-alpha-Bergamotene | < LOD | < LOD | | |
| 10-epi-gamma-Eudesmol | < LOD | < LOD | | | beta-Acorenol | < LOD | < LOD | | |
| gamma-Eudesmol | < LOD | < LOD | | | gamma-Murolene | < LOD | < LOD | | |
| gamma-Elementene | < LOD | < LOD | 0.03 | 0.09 | alpha-Bulnesene | < LOD | < LOD | | |
| Cannabigerolic Acid | < LOD | < LOD | 0.03 | 0.09 | beta-Elementene | < LOD | < LOD | 0.03 | 0.09 |
| Valencene | < LOD | < LOD | 0.03 | 0.09 | beta-Bisabolene | < LOD | < LOD | | |
| Allohimachalol | < LOD | < LOD | | | Humulene epoxide II | < LOD | < LOD | | |
| alpha-Selinene | < LOD | < LOD | | | Sativene | < LOD | < LOD | | |
| beta-Himachalene | < LOD | < LOD | | | CBDV | < LOD | < LOD | | |
| beta-Pinene oxide | < LOD | < LOD | | | alpha-Thujone | < LOD | < LOD | 0.03 | 0.09 |
| alpha-Murolene | < LOD | < LOD | | | alpha-Amorphene | < LOD | < LOD | | |
| Sabinene Hydrate | < LOD | < LOD | 0.03 | 0.09 | Bicyclogermacrene | < LOD | < LOD | | |
| beta-Guaiene | < LOD | < LOD | | | alpha-Gurjunene | < LOD | < LOD | | |
| allo-Aromadendrene | < LOD | < LOD | | | CBGVA | < LOD | < LOD | | |
| CBDVA | < LOD | < LOD | | | alpha-Copaene | < LOD | < LOD | | |
| gamma-Vetivenene | < LOD | < LOD | | | cis-alpha-Bergamotene | < LOD | < LOD | | |
| 6!7-Epoxyterpene | < LOD | < LOD | | | d9-THC | < LOD | < LOD | 0.03 | 0.09 |

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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-Hydroxycarbofura | < 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-etl | < 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 | Dicrotophos | < 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 | Etoazole | < 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 |
| Fonicamid | < 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

| | $\mu\text{g/g}$ | 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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