



# Atlas Agriscience, LLC

## Certificate of Analysis



### ATLAS HEMP, LLC

980 S Harney St.  
Seattle, WA 98108  
sales@atlashemp.com  
1-800-801-ATLAS

LAB#:WA58448-R3

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

### CHEMDAWG

The is the lab results for the Chemdawg Terpene Sample, ID:12

### 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](http://www.atlasagriscience.com)

Jim Roe  
Scientific Director

Ben Hanson  
Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience



**TERPENES**

% Total	mass %	mg/g	LOD	LOQ	GCMS				
					mass %	mg/g	LOD	LOQ	
Menthol	5.0E-5	0.0005	0.03	0.09	Camphor	0	0	0.01	0.09
Eucalyptol	0.0026	0.026	0.05	0.19	Linalool	0.00635	0.0635	0.04	0.13
Camphene	0.00395	0.0395	0.008	0.09	alpha-Pinene	0.03395	0.3395	0.006	0.02
Pulegone	0	0	0.03	0.09	alpha-Phellandrene	0	0	0.01	0.05
gamma-Terpinene	0.00015	0.0015	0.01	0.05	alpha-Terpinene	0	0	0.03	0.09
p-Cymene	0.0008	0.008	0.01	0.09	Citronellol	0	0	0.04	0.09
Terpinolene	0.00515	0.0515	0.00016	0.0013	Fenchone	0.00055	0.0055	0.01	0.09
beta-Pinene	0.04675	0.4675	0.03	0.05	Fenchol	0.0052	0.052	0.02	0.09
Terpineol	0.00045	0.0045	0.07	0.23	Sabinene	0	0	0.1	0.32
3-Carene	0	0	0.01	0.09	Myrcene	0.4873	4.873	0.02	0.07
Borneol	0.0001	0.001	0.03	0.09	Cedrol	0.0001	0.001	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	0.3071	3.071	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	0.00385	0.0385	0.03	0.09
Phytol	0	0	0.03	0.09	BetaCaryophyllene	0.068	0.68	0.03	0.05
alpha-Farnesene	0.0008	0.008	0.03	0.09	beta-Farnesene	0.0004	0.004	0.03	0.09
Humulene	0.0106	0.106	0.03	0.11	beta-Ocimene	0.00845	0.0845	0.03	0.09
Nerolidol	0	0	0.03	0.09	cis-Nerolidol	0	0	0.03	0.09
alpha-Ocimene	0.00095	0.0095	0.03	0.09	cis-beta-ocimene	0	0	0.03	0.09
Isoborneol, (-)-	0	0	0.008	0.09	Valencene	0	0	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.



18251 Cascade Avenue S  
Tukwila, WA 98188  
(253) 277-3563  
[www.atlasagriscience.com](http://www.atlasagriscience.com)

*James P. Roe*

Jim Roe  
Scientific Director

*Ben Hanson*

Ben Hanson  
Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience.



## 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

**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](http://www.atlasagriscience.com)

*James P. Roe*

Jim Roe  
Scientific Director

*Ben Hanson*

Ben Hanson  
Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience.



**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	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	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				



18251 Cascade Avenue S  
Tukwila, WA 98188  
(253) 277-3563  
[www.atlasagriscience.com](http://www.atlasagriscience.com)

*James P. Roe*

Jim Roe  
Scientific Director

*Ben Hanson*

Ben Hanson  
Director QA/QC



# Atlas Agriscience, LLC

## Certificate of Analysis



### 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

**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](http://www.atlasagriscience.com)

Jim Roe  
 Scientific Director

Ben Hanson  
 Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience.