



# Atlas Agriscience, LLC

## Certificate of Analysis



### ATLAS HEMP, LLC

LAB#:200221-07

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

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

### DUTCH HAWAIIAN

The is the lab results for the Dutch Hawaiian Terpene Sample, ID:106

### 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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Ben Hanson  
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**TERPENES**

GCMS

72.554% Total	mass %	mg/g	LOD	LOQ		mass %	mg/g	LOD	LOQ	
gamma-Terpinene	0.02	0.2	0.01	0.05		4-Carvomenthenol	0.008	0.08	0.03	0.09
Terpinolene	0.084	0.84	0.00016	0.0013		beta-Pinene	1.808	18.08	0.03	0.05
Terpineol	0.167	1.67	0.07	0.23		Valencene	0.58	5.8	0.03	0.09
Camphor	0.007	0.07	0.01	0.09		Eucalyptol	0.267	2.67	0.05	0.19
Linalool	1.181	11.81	0.04	0.13		Camphene	0.245	2.45	0.008	0.09
alpha-Pinene	1.804	18.04	0.006	0.02		cineole	0.11	1.1	0.03	0.09
Fenchone	0.055	0.55	0.01	0.09		Fenchol	0.601	6.01	0.02	0.09
Myrcene	5.995	59.95	0.02	0.07		Borneol	0.068	0.68	0.03	0.09
β-Eudesmol	0.026	0.26	0.02	0.09		Guaiol	0.05	0.5	0.01	0.09
D-Limonene	12.748	127.48	0.03	0.09		alpha-Bisabolol	0.02	0.2	0.03	0.09
Caryophyllene oxide	0.198	1.98	0.03	0.09		Bisabolene	4.624	46.24	0.03	0.11
BetaCaryophyllene	28.171	281.71	0.03	0.05		alpha-Farnesene	2.03	20.3	0.03	0.09
beta-Farnesene	2.703	27.03	0.03	0.09		Humulene	8.379	83.79	0.03	0.11
beta-Ocimene	0.191	1.91	0.03	0.09		Nerolidol	0.109	1.09	0.03	0.09
cis-Nerolidol	0.281	2.81	0.03	0.09		alpha-Ocimene	0.027	0.27	0.03	0.09
Menthol	< LOD	< LOD	0.03	0.09		Pulegone	< LOD	< LOD	0.03	0.09
alpha-Phellandrene	< 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
cis-2-Pinanol	< LOD	< LOD	0.03	0.09		gamma-Terpineol	< LOD	< LOD	0.03	0.09
Dronabinol	< LOD	< LOD	0.03	0.09		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		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
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		Phytol	< LOD	< LOD	0.03	0.09
Germacrene B	< LOD	< LOD	0.03	0.09		Cannabigerol	< 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
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
α-Thujone	< LOD	< LOD	0.03	0.09		Sabinene Hydrate	< LOD	< LOD	0.03	0.09
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-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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