



Atlas Agriscience, LLC

Certificate of Analysis



ATLAS HEMP, LLC

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LAB#:210124

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

HAWAIIAN HAZE

The is the lab results for the HAWAIIAN HAZE Terpene Sample, ID:265

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
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Jim Roe
Scientific Director

Ben Hanson
Director QA/QC

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FLAVORS & AROMATIC COMPOUNDS

HPLC-F

72.281% Total	µg/g	LOD	LOQ		µg/g	a	LOD	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

72.281% Total	mass %	mg/g	LOD	LOQ		mass %	mg/g	LOD	LOQ	
Eucalyptol	0.134	1.34	0.05	0.19		Myrcene	46.322	463.22	0.02	0.07
Borneol	0.038	0.38	0.03	0.09		β-Eudesmol	0.108	1.08	0.02	0.09
Guaiol	0.113	1.13	0.01	0.09		D-Limonene	4.454	44.54	0.03	0.09
Caryophyllene oxide	0.138	1.38	0.03	0.09		Bisabolene	0.242	2.42	0.03	0.11
BetaCaryophyllene	3.194	31.94	0.03	0.05		alpha-Farnesene	0.071	0.71	0.03	0.09
beta-Farnesene	0.734	7.34	0.03	0.09		Humulene	0.685	6.85	0.03	0.11
Nerolidol	0.019	0.19	0.03	0.09		cis-Nerolidol	0.049	0.49	0.03	0.09
alpha-Ocimene	0.171	1.71	0.03	0.09		3-Carene	0.011	0.11	0.01	0.09
Terpineol	0.082	0.82	0.07	0.23		Linalool	0.392	3.92	0.04	0.13
Camphene	0.196	1.96	0.008	0.09		alpha-Pinene	7.994	79.94	0.006	0.02
alpha-Phellandrene	0.03	0.3	0.01	0.05		gamma-Terpinene	0.034	0.34	0.01	0.05
alpha-Terpinene	0.023	0.23	0.03	0.09		p-Cymene	0.015	0.15	0.01	0.09
cineole	0.152	1.52	0.03	0.09		alpha-Bisabolol	0.054	0.54	0.03	0.09
4-Carvomenthenol	0.022	0.22	0.03	0.09		Terpinolene	0.425	4.25	0.00016	0.0013
Fenchone	0.051	0.51	0.01	0.09		beta-Pinene	3.764	37.64	0.03	0.05
Fenchol	0.191	1.91	0.02	0.09		trans-beta-Ocimene	2.372	23.72		
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		
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		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				D-Menthol	< LOD	< LOD	0.03	0.09
Isopulegol	< LOD	< LOD	0.03	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
6l9-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			Germacrene B	< LOD	< LOD	0.03	0.09
beta-Ocimene	< 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-Elemene	< LOD	< LOD	0.03	0.09	alpha-Bulnesene	< LOD	< LOD		
Cannabigerolic Acid	< LOD	< LOD	0.03	0.09	beta-Elemene	< 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

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-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-etf	< 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	Diclotophos	< 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
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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