



Atlas Agriscience, LLC

Certificate of Analysis



ATLAS HEMP, LLC

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Seattle, WA 98108
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1-800-801-ATLAS

LAB#:210124 19 samples

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

LIFTER

The is the lab results for the LIFTER Terpene Sample, ID:315

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

61.087% 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

61.087% Total	mass %	mg/g	LOD	LOQ		mass %	mg/g	LOD	LOQ
Valencene	0.315	3.15	0.03	0.09	Terpineol	0.087	0.87	0.07	0.23
beta-Pinene	3.114	31.14	0.03	0.05	Terpinolene	0.451	4.51	0.00016	0.0013
4-Carvomenthenol	0.018	0.18	0.03	0.09	alpha-Terpinene	0.026	0.26	0.03	0.09
gamma-Terpinene	0.031	0.31	0.01	0.05	alpha-Phellandrene	0.037	0.37	0.01	0.05
alpha-Pinene	6.687	66.87	0.006	0.02	Caryophyllene oxide	0.195	1.95	0.03	0.09
Bisabolene	0.349	3.49	0.03	0.11	BetaCaryophyllene	6.197	61.97	0.03	0.05
alpha-Farnesene	0.128	1.28	0.03	0.09	trans-beta-Ocimene	1.959	19.59		
beta-Farnesene	0.103	1.03	0.03	0.09	alpha-Ocimene	0.134	1.34	0.03	0.09
Humulene	1.533	15.33	0.03	0.11	Nerolidol	0.045	0.45	0.03	0.09
cis-Nerolidol	0.159	1.59	0.03	0.09	D-Limonene	3.803	38.03	0.03	0.09
Guaiol	0.019	0.19	0.01	0.09	Linalool	0.605	6.05	0.04	0.13
Camphene	0.215	2.15	0.008	0.09	cineole	0.12	1.2	0.03	0.09
alpha-Bisabolol	0.046	0.46	0.03	0.09	Fenchone	0.055	0.55	0.01	0.09
Fenchol	0.189	1.89	0.02	0.09	3-Carene	0.015	0.15	0.01	0.09
Myrcene	34.285	342.85	0.02	0.07	Borneol	0.039	0.39	0.03	0.09
β-Eudesmol	0.022	0.22	0.02	0.09	Eucalyptol	0.107	1.07	0.05	0.19
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			p-Cymene	< LOD	< LOD	0.01	0.09
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	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		
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-Muurolene	< 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	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-Muurolene	< 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-Epoxymyrcene	< 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

	mass %	mg/g	LOD	LOQ		mass %	mg/g	LOD	HPLC-PDA 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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