



# Atlas Agriscience, LLC

## Certificate of Analysis



### ATLAS HEMP, LLC

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

LAB#:210124

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

### CBG

The is the lab results for the CBG Terpene Sample, ID:253

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

Jim Roe  
Scientific Director

Ben Hanson  
Director QA/QC

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### FLAVORS & AROMATIC COMPOUNDS

HPLC-F

80.016% 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

80.016% Total	mass %	mg/g	LOD	LOQ		mass %	mg/g	LOD	LOQ	
Eucalyptol	0.062	0.62	0.05	0.19		Myrcene	40.609	406.09	0.02	0.07
Borneol	0.045	0.45	0.03	0.09		β-Eudesmol	0.098	0.98	0.02	0.09
D-Menthol	0.027	0.27	0.03	0.09		Guaiol	0.122	1.22	0.01	0.09
D-Limonene	11.644	116.44	0.03	0.09		Caryophyllene oxide	0.103	1.03	0.03	0.09
Bisabolene	0.457	4.57	0.03	0.11		BetaCaryophyllene	7.324	73.24	0.03	0.05
alpha-Farnesene	0.067	0.67	0.03	0.09		beta-Farnesene	0.442	4.42	0.03	0.09
Humulene	1.385	13.85	0.03	0.11		Nerolidol	0.017	0.17	0.03	0.09
cis-Nerolidol	0.065	0.65	0.03	0.09		alpha-Ocimene	0.209	2.09	0.03	0.09
3-Carene	0.145	1.45	0.01	0.09		Sabinene	0.019	0.19	0.1	0.32
Linalool	0.484	4.84	0.04	0.13		Camphene	0.318	3.18	0.008	0.09
alpha-Pinene	3.811	38.11	0.006	0.02		alpha-Phellandrene	0.234	2.34	0.01	0.05
gamma-Terpinene	0.078	0.78	0.01	0.05		alpha-Terpinene	0.116	1.16	0.03	0.09
p-Cymene	0.051	0.51	0.01	0.09		cinole	0.093	0.93	0.03	0.09
alpha-Bisabolol	0.065	0.65	0.03	0.09		4-Carvomenthenol	0.025	0.25	0.03	0.09
Terpinolene	4.25	42.5	0.00016	0.0013		Fenchone	0.126	1.26	0.01	0.09
beta-Pinene	3.062	30.62	0.03	0.05		Fenchol	0.372	3.72	0.02	0.09
Terpineol	0.109	1.09	0.07	0.23		trans-beta-Ocimene	3.983	39.83		
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		
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		
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-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-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	Dicrctophos	< 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

	$\mu\text{g/g}$	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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