



# Atlas Agriscience, LLC

## Certificate of Analysis



### ATLAS HEMP, LLC

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1-800-801-ATLAS

LAB#:210124

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

### CHERRY SODA

The is the lab results for the CHERRY SODA Terpene Sample, ID:259

### 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  
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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

62.073% 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

62.073% Total	mass %	mg/g	LOD	LOQ		mass %	mg/g	LOD	LOQ
Eucalyptol	0.55	5.5	0.05	0.19	Myrcene	41.076	410.76	0.02	0.07
Borneol	0.031	0.31	0.03	0.09	β-Eudesmol	0.013	0.13	0.02	0.09
D-Menthol	0.024	0.24	0.03	0.09	Guaiol	0.016	0.16	0.01	0.09
D-Limonene	6.465	64.65	0.03	0.09	Caryophyllene oxide	0.056	0.56	0.03	0.09
Bisabolene	0.179	1.79	0.03	0.11	BetaCaryophyllene	3.391	33.91	0.03	0.05
beta-Farnesene	0.127	1.27	0.03	0.09	Humulene	0.743	7.43	0.03	0.11
cis-Nerolidol	0.068	0.68	0.03	0.09	alpha-Ocimene	0.129	1.29	0.03	0.09
trans-beta-Ocimene	2.57	25.7			Sabinene	0.013	0.13	0.1	0.32
Terpineol	0.056	0.56	0.07	0.23	Linalool	0.171	1.71	0.04	0.13
Camphene	0.167	1.67	0.008	0.09	alpha-Pinene	3.439	34.39	0.006	0.02
alpha-Phellandrene	0.014	0.14	0.01	0.05	gamma-Terpinene	0.053	0.53	0.01	0.05
alpha-Terpinene	0.037	0.37	0.03	0.09	p-Cymene	0.027	0.27	0.01	0.09
cineole	0.042	0.42	0.03	0.09	alpha-Bisabolol	0.024	0.24	0.03	0.09
4-Carvomenthenol	0.022	0.22	0.03	0.09	Terpinolene	0.105	1.05	0.00016	0.0013
Fenchone	0.047	0.47	0.01	0.09	beta-Pinene	2.133	21.33	0.03	0.05
Fenchol	0.241	2.41	0.02	0.09	Sabinene Hydrate	0.043	0.43	0.03	0.09
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		
3-Carene	< LOD	< LOD	0.01	0.09	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		
alpha-Farnesene	< LOD	< LOD	0.03	0.09	Germacrene B	< LOD	< LOD	0.03	0.09
beta-Ocimene	< LOD	< LOD	0.03	0.09	Nerolidol	< 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			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

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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-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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