



Atlas Agriscience, LLC

Certificate of Analysis



ATLAS HEMP, LLC

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

LAB#:200221-16

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

CANNA TSU

This is the lab results for the Canna Tsu Terpene Sample, ID:11

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

atlas
agricience

www.atlasagriscience.com

James P. Roe

Jim Roe
Scientific Director

Ben Hanson

Ben Hanson
Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience.



Atlas Agriscience, LLC

Certificate of Analysis



TERPENES

% Total	mass %	mg/g	LOD	LOQ	GCMS
alpha-Pinene	2.601	26.01	0.006	0.02	gamma-Terpinene
alpha-Terpinene	0.051	0.51	0.03	0.09	4-Carvomenthenol
Terpinolene	3.12	31.2	0.00016	0.0013	beta-Pinene
Terpineol	0.795	7.95	0.07	0.23	Valencene
Sabinene Hydrate	0.041	0.41	0.03	0.09	Camphor
Linalool	7.342	73.42	0.04	0.13	Camphene
alpha-Phellandrene	0.127	1.27	0.01	0.05	p-Cymene
Fenchone	0.243	2.43	0.01	0.09	Fenchol
3-Carene	0.126	1.26	0.01	0.09	Myrcene
Borneol	0.399	3.99	0.03	0.09	D-Menthol
D-Limonene	29.735	297.35	0.03	0.09	Caryophyllene oxide
Bisabolene	2.347	23.47	0.03	0.11	BetaCaryophyllene
alpha-Farnesene	0.247	2.47	0.03	0.09	beta-Farnesene
Humulene	1.816	18.16	0.03	0.11	beta-Ocimene
Nerolidol	0.052	0.52	0.03	0.09	cis-Nerolidol
alpha-Ocimene	0.068	0.68	0.03	0.09	Eucalyptol
Menthol	< LOD	< LOD	0.03	0.09	Citronellol
Pulegone	< LOD	< LOD	0.03	0.09	cis-2-Pinanol
cineole	< LOD	< LOD	0.03	0.09	Dronabinol
gamma-Terpineol	< LOD	< LOD	0.03	0.09	Limonene
Sabinene	< LOD	< LOD	0.1	0.32	Cedrol
4-Thujanol	< LOD	< LOD	0.08	0.27	Alloaromadendrene
alpha-Bergamotene	< LOD	< LOD	0.03	0.09	β-Eudesmol
beta-Thujone	< LOD	< LOD	0.03	0.09	Isopulegol
alpha-Bulnesene	< LOD	< LOD	0.03	0.09	Carvone
Guaiol	< LOD	< LOD	0.01	0.09	beta-Thujene
alpha-Cedrene	< LOD	< LOD	0.03	0.32	Geraniol
Eudesmadiene	< LOD	< LOD	0.03	0.09	Nerol
delta8-THC	< LOD	< LOD	0.03	0.09	Geranyl Acetate
Cannabidiol	< LOD	< LOD	0.03	0.09	Phytol
alpha-Bisabolol	< LOD	< LOD	0.03	0.09	Cannabigerol
Germacrene B	< LOD	< LOD	0.03	0.09	cis-beta-ocimene
alpha-Guaiene	< LOD	< LOD	0.03	0.09	trans-2-Pinanol
Caryophyllene	< LOD	< LOD	0.03	0.09	gamma-Elemene
Isoborneol, (-)	< LOD	< LOD	0.008	0.09	beta-Elemene
Cannabigerolic Acid	< LOD	< LOD	0.03	0.09	d9-THC
α-Thujone	< LOD	< LOD	0.03	0.09	

Laboratory note : This product contains terpenes and terpenoids. It does not contain cannabinoids.



18251 Cascade Avenue S
Tukwila, WA 98188
(253) 277-3563
www.atlasagriscience.com

James P. Roe

Jim Roe

Scientific Director

Ben H. Hanson

Ben Hanson

Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience.



Atlas Agriscience, LLC

Certificate of Analysis



CANNABINOIDs

	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

Laboratory note : This product contains terpenes and terpenoids. It does not contain cannabinoids.



18251 Cascade Avenue S
Tukwila, WA 98188
(253) 277-3563
www.atlasagriscience.com

Jim Roe
Scientific Director

Ben Hanson
Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience.



Atlas Agriscience, LLC

Certificate of Analysis



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
Benalaxyd	< 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	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	Etoxazole	< LOD	0.05	0.2
Fenamidone	< LOD	0.05	0.15	Fenazaquin	< LOD	0.05	0.2
Fenoxy carb	< 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	Furalaxyd	< 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
Isopropcarb	< 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
Metalaxyd	< 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			Picoxytostrobin	< 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	Quinoxyfen	< 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-Meth	< 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				



18251 Cascade Avenue S
Tukwila, WA 98188
(253) 277-3563
www.atlasagriscience.com

James P. Roe

Jim Roe
Scientific Director

Ben Hanson
Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience.



Atlas Agriscience, LLC

Certificate of Analysis



HEAVY METALS

	<u>µg/g</u>	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

Laboratory note : This product contains terpenes and terpenoids. It does not contain cannabinoids.



18251 Cascade Avenue S
Tukwila, WA 98188
(253) 277-3563
www.atlasagriscience.com

James P. Roe

Jim Roe
Scientific Director

Ben H. Hanson

Ben Hanson
Director QA/QC

This product has been tested by Atlas Agriscience using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Atlas Agriscience makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Atlas Agriscience.