Atlas Agriscience, LLC
Certificate of Analysis

ATLAS HEMP, LLC

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

LAB#:WA34382

Received: 06/19/2019
Analyzed: 10/27/2019
Reported: 02/29/2020

DJ SHORT BLUEBERRY

The is the lab results for the DJ Short Blueberry Terpene Sample, ID:17

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
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 bystate 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

GCMS

% Total	mass %	mg/g	LOD	LOQ
Cedrol	0.01	0.1	0.03	0.09
Caryophyllene oxide	0.17	1.7	0.03	0.09
alpha-Farnesene	1.12	11.2	0.03	0.09
Humulene	2.72	27.2	0.03	0.11
Eucalyptol	0.19	1.9	0.05	0.19
Camphene	0.19	1.9	0.008	0.09
alpha-Phellandrene	0.09	0.9	0.01	0.05
alpha-Terpinene	0.06	0.6	0.03	0.09
Terpinolene	2.78	27.8	0.00016	0.0013
Fenchone	0.08	0.8	0.01	0.09
Fenchol	0.72	7.2	0.02	0.09
3-Carene	0.06	0.6	0.01	0.09
Borneol	0.05	0.5	0.03	0.09
trans-beta-Ocimene	0.21	2.1		
Menthol	< LOD	< LOD	0.03	0.09
Pulegone	< LOD	< LOD	0.03	0.09
cineole	< LOD	< LOD	0.03	0.09
Cycloheptanone	< LOD	< LOD		
Dronabinol	< LOD	< LOD	0.03	0.09
Sabinene	< LOD	< LOD	0.1	0.32
alpha-Bergamotene	< LOD	< LOD	0.03	0.09
beta-Thujone	< LOD	< LOD	0.03	0.09
alpha-Bulnesene	< LOD	< LOD	0.03	0.09
Isopulegol	< LOD	< LOD	0.03	0.09
D-Limonene	< LOD	< LOD	0.03	0.09
beta-Thujene	< LOD	< LOD	0.03	0.09
Geraniol	< LOD	< LOD	0.03	0.09
Nerol	< LOD	< LOD	0.03	0.09
Geranyl Acetate	< LOD	< LOD	0.03	0.09
Bisabolene	< LOD	< LOD	0.03	0.11
Germacrene B	< LOD	< LOD	0.03	0.09
Cannabigerol	< LOD	< LOD	0.03	0.09
alpha-Ocimene	< LOD	< LOD	0.03	0.09
Caryophyllene	< LOD	< LOD	0.03	0.09
Isoborneol, (-)-	< LOD	< LOD	0.008	0.09
Cannabigerolic Acid	< LOD	< LOD	0.03	0.09
Valencene	< LOD	< LOD	0.03	0.09
Sabinene Hydrate	< LOD	< LOD	0.03	0.09

	mass %	mg/g	LOD	LOQ
Guaiol	0.01	0.1	0.01	0.09
BetaCaryophyllene	13.01	130.1	0.03	0.05
beta-Farnesene	3.85	38.5	0.03	0.09
cis-Nerolidol	0.05	0.5	0.03	0.09
Linalool	0.22	2.2	0.04	0.13
alpha-Pinene	2.75	27.5	0.006	0.02
gamma-Terpinene	0.07	0.7	0.01	0.05
p-Cymene	0.04	0.4	0.01	0.09
gamma-Terpineol	0.12	1.2	0.03	0.09
beta-Pinene	4.06	40.6	0.03	0.05
Limonene	25.27	252.7	0.03	0.05
Myrcene	32.3	323	0.02	0.07
beta-Ocimene	3.22	32.2	0.03	0.09
Camphor	< LOD	< LOD	0.01	0.09
Citronellol	< LOD	< LOD	0.04	0.09
cis-2-Pinanol	< LOD	< LOD	0.03	0.09
4-Carvomenthenol	< LOD	< LOD	0.03	0.09
Terpineol	< LOD	< LOD	0.07	0.23
4-Thujanol	< LOD	< LOD	0.08	0.27
Alloaromadendrene	< LOD	< LOD	0.03	0.09
β-Eudesmol	< LOD	< LOD	0.02	0.09
D-Menthol	< LOD	< LOD	0.03	0.09
Carvone	< LOD	< LOD	0.03	0.09
alpha-Cedrene	< LOD	< LOD	0.03	0.32
Eudesmadiene	< LOD	< LOD	0.03	0.09
delta8-THC	< LOD	< LOD	0.03	0.09
Cannabidiol	< LOD	< LOD	0.03	0.09
alpha-Bisabolol	< LOD	< LOD	0.03	0.09
Phytol	< LOD	< LOD	0.03	0.09
Nerolidol	< LOD	< LOD	0.03	0.09
alpha-Guaiene	< LOD	< LOD	0.03	0.09
cis-beta-ocimene	< LOD	< LOD	0.03	0.09
trans-2-Pinanol	< LOD	< LOD	0.03	0.09
gamma-Elemene	< LOD	< LOD	0.03	0.09
beta-Elemene	< LOD	< LOD	0.03	0.09
α-Thujone	< LOD	< LOD	0.03	0.09
d9-THC	< 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

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 bystate 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

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

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 bystate 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
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-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
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
Pyripoxyfen	< 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

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 bystate 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

	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

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 bystate 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