

# Certificate of Analysis

Order #: SIM191211-200016      Order Date: 2019-12-11      Collection Date: 2019-12-13      Report Date: 2019-12-23

Batch #: 573291  
Sample #: AAAA382  
Specimen Type: CBD/HEMP Derivative Products (Ingestion)  
Extracted From: Hemp  
Description: Alaskan Pet Tincture 1500mg

Initial Gross Weight: 13344.000mg  
Method: SOP-3



Potency <b>Tested</b>	Residual Solvents <b>Passed</b>	Heavy Metals <b>Passed</b>
Mycotoxins <b>Passed</b>	Pathogenic <b>Passed</b>	Terpenes <b>Tested</b>
Pesticides <b>Passed</b>		



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

<b>CBD Total</b> 5.521%	<b>THC Total</b> Not Detected	<b>CBG Total</b> Not Detected
<b>CBN Total</b> Not Detected	<b>Other Cannabinoids Total</b> 0.016%	<b>Total Detected Cannabinoids</b> 5.537%

Potency - 11 (Tested)						(HPLC)					
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		<LOQ	0.001	CBD	55.210	5.521	0.001	CBDA		<LOQ	0.001
CBDV	0.162	0.016	0.001	CBG		<LOQ	0.001	CBGA		<LOQ	0.001
CBN		<LOQ	0.001	Delta-8-THC		<LOQ	0.001	Delta-9-THC		<LOQ	0.001
THCA-A		<LOQ	0.001	THCV		<LOQ	0.001	Total CBD	55.210	5.521	0.001
Total THC		<LOQ	0.001								

\*Total CBD = CBD + (CBD-A \* 0.877), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Other Cannabinoids Total = CBC + CBDV + THC + THCV + THCA-A, \*Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THC + THCV + THCA-A (mg/g) = Milligram per Gram, LOQ = Limit of Quantitation

Xueli Gao  
Ph.D., DABT

Lab Toxicologist

Aixia Sun  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Principal Scientist

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721 Cortaro Drive  
Sun City Center, FL - 33573

P: +1 (866) 762-8379  
F: +1 (813) 634-4538


E: info@acslabcannabis.com  
http://www.acslabcannabis.com

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## Residual Solvents - FL (Passed)

(GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
1,1-Dichloroethen-e	8	<LOQ	0.132	1,2-dichloroethan-e	5	<LOQ	0.032	Acetone	5000	<LOQ	12
Benzene	2	<LOQ	0.016	Butanes	2000	<LOQ	13.32	Acetonitrile	410	<LOQ	0.96
Ethanol	5000	<LOQ	16	Ethyl Acetate	5000	<LOQ	6.4	Chloroform	60	<LOQ	0.032
Ethylene Oxide	5	<LOQ	0.32	Heptane	5000	<LOQ	8	Ethyl Ether	5000	<LOQ	8
Isopropyl alcohol	500	<LOQ	8	Methanol	3000	<LOQ	4	Hexane	290	<LOQ	0.8
Pentane	5000	<LOQ	12	Propane	2100	<LOQ	26.668	Methylene chloride	600	<LOQ	2
Total Xylenes	2170	<LOQ	7.2	Trichloroethene	80	<LOQ	0.4	Toluene	890	<LOQ	2.4

(ppm) = Parts per Million, (ppm) = (µg/g), , LOQ = Limit of Quantitation

## Heavy Metals (Passed)

(ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	1500	Passed	100	Cadmium (Cd)	500	<LOQ	100	Lead (Pb)	500	<LOQ	100
Mercury (Hg)	3000	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

## Mycotoxins (Passed)

(LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1		<LOQ	6	Aflatoxin B2		<LOQ	6	Aflatoxin G1		<LOQ	6
Aflatoxin G2		<LOQ	6	Aflatoxin Total	20	<LOQ	6	Ochratoxin A	20	<LOQ	12

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation



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Ph.D., DABT

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## Pathogenic Microbiology #3 (HEMP Compliance Panel) (Passed) (qPCR)

Analyte	Result	Analyte	Result	Analyte	Result
E.Coli	Absence	Listeria	Absence	Salmonella	Absence

## Terpenes - FL (Tested) (GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol	<LOQ		0.001	(R)-(+)-Limonene	<LOQ		0.001	3-Carene	<LOQ		0.001
Alpha-Bisabolol	<LOQ		0.001	alpha-Cedrene	<LOQ		0.001	alpha-Humulene	<LOQ		0.001
alpha-Phellandren-e	<LOQ		0.001	alpha-Pinene	<LOQ		0.001	alpha-Terpinene	<LOQ		0.001
Borneol	<LOQ		0.001	beta-Myrcene	<LOQ		0.001	beta-Pinene	<LOQ		0.001
Caryophyllene oxide	<LOQ		0.001	Camphene	<LOQ		0.001	Camphors	<LOQ		0.001
Fenchyl Alcohol	<LOQ		0.001	cis-Nerolidol	<LOQ		0.001	Eucalyptol	<LOQ		0.001
				Farnesene	<LOQ		0.001	Fenchone	<LOQ		0.001
				gamma-Terpinene	<LOQ		0.001	Geraniol	<LOQ		0.001
				Hexahydrothymol	<LOQ		0.001	Geranyl acetate	<LOQ		0.001
Guaiol	<LOQ		0.001	Linalool	<LOQ		0.001	Isoborneol	<LOQ		0.001
Isopulegol	<LOQ		0.001	Pulegone	<LOQ		0.001	Nerol	<LOQ		0.001
Ocimene	<LOQ		0.001	Terpineol	<LOQ		0.001	Sabinene	<LOQ		0.001
Sabinene Hydrate	<LOQ		0.001	trans-Caryophyllene	<LOQ		0.001	Terpinolene	<LOQ		0.001
trans-beta-Ocimen-e	<LOQ		0.001					trans-Nerolidol	<LOQ		0.001
								Valencene	<LOQ		0.001

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## Pesticides (Passed)

(LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	300	<LOQ	28.23	Acephate	3000	<LOQ	30	Acequinocyl	2000	<LOQ	48
Acetamiprid	3000	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	3000	<LOQ	10
Bifenazate	3000	<LOQ	30	Bifenthrin	500	<LOQ	30	Chlorfenapyr	100	<LOQ	48
Chlorpyrifos	100	<LOQ	30	Clofentezine	500	<LOQ	30	Coumaphos	100	<LOQ	30
Cyfluthrin	1000	<LOQ	30	Cypermethrin	1000	<LOQ	30	Daminozide	100	<LOQ	30
DDVP(Dichlorvos)	100	<LOQ	30	Diazinon	200	<LOQ	30	Dimethoate	100	<LOQ	30
Dimethomorph	3000	<LOQ	30	Ethoprop(hos)	100	<LOQ	30	Etofenprox	100	<LOQ	30
Etoxazole	1500	<LOQ	30	Fenhexamid	3000	<LOQ	30	Fenoxycarb	100	<LOQ	30
Fipronil	100	<LOQ	30	Fonicamid	2000	<LOQ	30	Fludioxonil	3000	<LOQ	30
Hexythiazox	2000	<LOQ	30	Imazalil	100	<LOQ	30	Imidacloprid	3000	<LOQ	30
Kresoxim Methyl	1000	<LOQ	30	Malathion A	2000	<LOQ	30	Metalaxyl	3000	<LOQ	10
Methiocarb	100	<LOQ	30	Methomyl	100	<LOQ	30	Mevinphos	100	<LOQ	30
Myclobutanil	3000	<LOQ	30	Naled	500	<LOQ	30	Oxamyl	500	<LOQ	30
Paclobutrazol	100	<LOQ	30	Parathion-methyl	100	<LOQ	48	Pentachloronitrobenzene	200	<LOQ	30
Permethrin	1000	<LOQ	30	Phosmet	200	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30
Prallethrin	400	<LOQ	30	Propiconazole	1000	<LOQ	30	Propoxur	100	<LOQ	30
Pyrethrins	1000	<LOQ	30	Pyridaben	3000	<LOQ	30	Spinetoram	3000	<LOQ	30
Spinosyn A	3000	<LOQ	30	Spinosyn D	3000	<LOQ	30	Spiromesifen	3000	<LOQ	30
Spirotetramat	3000	<LOQ	30	Spiroxamine	100	<LOQ	30	Tebuconazole	1000	<LOQ	30
Thiacloprid	100	<LOQ	30	Thiamethoxam	1000	<LOQ	30	Trifloxystrobin	3000	<LOQ	30

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