

ALKUHME  
4520 GLENMEADE LANE  
AUBURN HILLS, MI 48326

# Certificate of Analysis



Order #: ALK200129-070018      Order Date: 2020-01-29      Collection Date: 2020-01-31      Report Date: 2020-02-07

Batch #: B3012720  
Sample #: AAAB719  
Specimen Type: CBD/HEMP Derivative Products (External Use)  
Extracted From: Hemp  
Description: CBD Balm 500

Initial Gross Weight: 181535mg  
Net Weight: 47448mg  
Method: SOP-3



Potency Tested	Residual Solvents Passed	Heavy Metals Passed
Mycotoxins Passed	Pathogenic Passed	Pathogenic Microbiology Passed
Pesticides Passed		

**CBD Total**  
1.103%      523.351mg

**THC Total**  
Not Detected

**CBG Total**  
Not Detected

**CBN Total**  
0.057%      27.017mg

**Other Cannabinoids**  
Not Detected

**Total Cannabinoids**  
1.160%      550.368mg

## Potency - 11 (Tested)

Potency - 11 (Tested)							(HPLC)				
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBD	11.030	1.103	0.001	CBDA	<LOQ	0.001		CBDV	<LOQ	0.001	
CBG	<LOQ	0.001		CBGA	<LOQ	0.001		CBN	0.569	0.057	0.001
Delta-8-THC	<LOQ	0.1		Delta-9-THC	<LOQ	0.1		THCA-A	<LOQ	0.1	
THCV	<LOQ	0.1		<b>Total CBD</b>	11.030	1.103	0.001	<b>Total THC</b>	<LOQ	0.1	

\*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 + THCV + THCV-A, \*Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A, \*Total (mg) = Total (%) ÷ 100 \* Net Weight(mg) (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

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.

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

License No. 800025015  
CLIA No. 10D1094068

**ALKUHME**  
**4520 GLENMEADE LANE**  
**AUBURN HILLS, MI 48326**

# Certificate of Analysis



**Order #:** ALK200129-070018      **Order Date:** 2020-01-29      **Collection Date:** 2020-01-31      **Report Date:** 2020-02-07

**Batch #:** B3012720  
**Sample #:** AAAB719  
**Specimen Type:** CBD/HEMP Derivative Products (External Use)  
**Extracted From:** Hemp  
**Description:** CBD Balm 500

**Initial Gross Weight:** 181535mg  
**Net Weight:** 47448mg  
**Method:** SOP-3



## Residual Solvents (Extract Only) (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)
Acetone	5000	<LOQ	87.9	Benzene	1.6	<LOQ	1.6	Chloroform	53	<LOQ	53
Ethanol	5000	<LOQ	26.7	Hexane	60	<LOQ	36.6	I-Butane	5000	<LOQ	100
Isopropanol	5000	<LOQ	52.3	Methanol	3000	<LOQ	87.9	N-Butane	5000	<LOQ	200
Pentane	5000	<LOQ	389.5	Toluene	890	<LOQ	38.4				

(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	<LOQ	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

Xueli Gao  
 Ph.D., DABT

Lab Toxicologist

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

Principal Scientist

*This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.*

721 Cortaro Drive  
 Sun City Center, FL - 33573

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

E: [info@acslabcannabis.com](mailto:info@acslabcannabis.com)  
<http://www.acslabcannabis.com>

License No. 800025015  
 CLIA No. 10D1094068

ALKUHME  
4520 GLENMEADE LANE  
AUBURN HILLS, MI 48326

# Certificate of Analysis



Order #: ALK200129-070018      Order Date: 2020-01-29      Collection Date: 2020-01-31      Report Date: 2020-02-07

Batch #: B3012720  
Sample #: AAAB719  
Specimen Type: CBD/HEMP Derivative Products (External Use)  
Extracted From: Hemp  
Description: CBD Balm 500

Initial Gross Weight: 181535mg  
Net Weight: 47448mg  
Method: SOP-3



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

Analyte	Result
Listeria	
Monocytogenes	Absence

## Pathogenic Microbiology #1 (MMTC Compliance Panel) (Passed) (Micro Array)

Analyte	Result	Analyte	Result
Salmonella	Absence	STEC E. Coli	Absence

Xueli Gao      Lab Toxicologist  
Ph.D., DABT

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

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.

721 Cortaro Drive  
Sun City Center, FL - 33573

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

E: [info@acslabcannabis.com](mailto:info@acslabcannabis.com)  
<http://www.acslabcannabis.com>

License No. 800025015  
CLIA No. 10D1094068

ALKUHME  
4520 GLENMEADE LANE  
AUBURN HILLS, MI 48326

# Certificate of Analysis



Order #: ALK200129-070018

Order Date: 2020-01-29

Collection Date: 2020-01-31

Report Date: 2020-02-07

Batch #: B3012720  
Sample #: AAAB719  
Specimen Type: CBD/HEMP Derivative Products (External Use)  
Extracted From: Hemp  
Description: CBD Balm 500

Initial Gross Weight: 181535mg  
Net Weight: 47448mg  
Method: SOP-3



## 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	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	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
Paclotubrazol	100	<LOQ	30	Parathion-methyl	100	<LOQ	10	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	Spirosyn 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

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

Xueli Gao  
Ph.D., DABT

Lab Toxicologist

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

Principal Scientist

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.

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

License No. 800025015  
CLIA No. 10D1094068