



UNITED
NATURAL HEMP EXTRACTS

1510 Stantonsburg Rd SE
Wilson, NC, 27893, USA
Tel: 252-246-9100 or 252-911-7013
Fax: 252-265-9111
Email: info@unhextracts.com

Date: February 20, 2020	COA Ref.# UNHE-034
Product description/Variety:	Dried Hemp, Suver Haze

COA for Batch Number: 034 SH

CERTIFICATE OF ANALYSIS*

1. Potency ($\leq 0.3\%$ for Total Δ^9 -THC), % CBD, Pesticides and Terpenes					
Test type	% CBD	% Δ^9 -THC	240 Pesticides	36 Mycotoxins	Others (specify)
Specification	≥ 4.00	$\leq 0.3\%$			
Test Value	14.14	0.26			
Comments	Good	Pass	Pass	Pass	≥ 9 Terpenes

2. Heavy Metals					
Test type	Overall for 4 Metals	Heavy Metal Type			
		Mercury (Hg)	lead (Pb)	Cadmium (Cd)	Arsenic (As)
Comments	Pass	Pass	Pass	Pass	Pass

We hereby certify that the raw hemp with the above test results from accredited third lab has been reviewed, and all test pass within acceptable limits for the test indicated, unless otherwise stated.

*Individual test results are attached.

Verified by: Joseph K. Dzisam, Ph.D.

Designation: Vice President, Lab Operations

Sign and Date :

JOS
02.20.2020

Special Comments:

PASSED ✓



Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

CS0661_202102-001_C

Cannabinoids

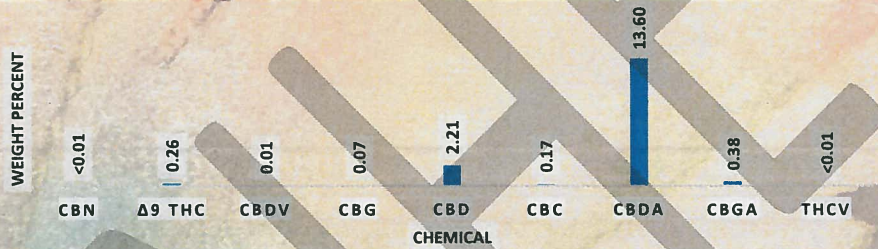
Client Sample ID: Buds 034 Suv Hz
Sample Description: Dried Hemp
Receive sample: 16-Jan-20
Initiate analyses: 17-Jan-20

United Hemp Extracts
 1510 Stantonsburg Rd. SE
 Wilson, NC 27893

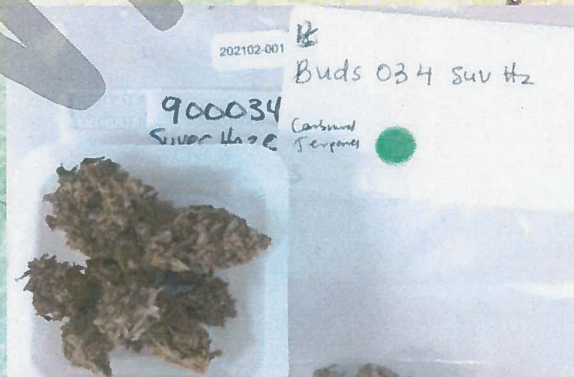
Analyst: Dave Minser	Signature: 	Date: 27-Jan-2020 17:14 EST
Reviewed by: Kathleen Brown	Signature: 	Date: 28-Jan-2020 09:51 EST

Test Type: UHE
Technical Procedure: TP A0033 & A0049

Results:



Chemical Analyzed	% Dry Weight	Concentration (mg/g)
CBN	<0.01	<0.10
Δ ⁹ THC	0.26	2.55
CBDV	0.01	0.11
CBG	0.07	0.69
CBD	2.21	22.10
CBC	0.17	1.68
CBDA	13.60	136.04
CBGA	0.38	3.79
THCV	<0.01	<0.10
* total CBD	14.14	141.41



* total CBD is calculated by $CBD + 0.877 \times CBDA$

Concentration of cannabinoids were determined by Shimadzu LC2030 Plus with an Avazyme intra lab validated method utilizing certified reference standards for each chemical analyzed.

The result applies only to the sample listed on this certificate. Avazyme cannot guarantee that this sample is representative of the product/lot as a whole. Avazyme warrants that this study was performed in accordance with appropriate laboratory research practices and protocols for the sample submitted.

Avazyme is not responsible for Sponsor's use of the information or concepts generated as part of the study, and will not be liable for any loss or damage resulting from such use.



Client Sample ID: **900034 BaSHCW**

Sample Description: **Dried Hemp**

United Hemp Extracts
1510 Stantonsburg Rd. SE
Wilson, NC 27893

Received sample: **19-Nov-19**

Initiated analyses: **2-Dec-19**

Analyst: Steve Werness	Signature: <i>Steve Werness</i>	Date: 04 Dec 19
Reviewed by: Jacob Edwards	Signature: <i>Jacob Edwards</i>	Date: 05 Dec 19

Analysis of concentration (conc.) of Pesticides in customer supplied material with UHPLC-MS/MS.

Results:

Pesticide	Conc. Detected	LOQ ppb	Pesticide	Conc. Detected	LOQ ppb	Pesticide	Conc. Detected	LOQ ppb	Pesticide	Conc. Detected	LOQ ppb
3-hydroxycarbofuran	ND	10	Carbofuran	ND	10	Diniconazole	ND	10	Flutolanil	ND	10
6-Benzylaminopurine	ND	10	Carboxin	ND	10	Dinotefuran	ND	10	Flutriafol	ND	10
Abamectin B1a	ND	10	Carfentrazone-ethyl	ND	10	Dioxacarb	ND	10	Fomesafen	ND	10
Acephate	ND	10	Chlorantranilprole	15 ppb	10	Diuron	ND	10	Förchlorfenuron	ND	10
Acequinosyl	ND	10	Chlorotoluron	ND	10	Doramectin	ND	30	Formetanate	ND	100
Acetamiprid	ND	10	Chloroxuron	ND	10	Emamectin B1a	ND	10	Füberdiazole	ND	10
Acibenzolar-S-methyl	ND	30	Chlorpyrifos	ND	10	Epoxiconazole	ND	10	Furalaxyl	ND	10
Alarycarb	ND	30	Cinerin I	ND	10	Eprinomectin	ND	10	Furathlocarb	ND	10
Aldicarb	ND	10	Cinerin II	ND	10	Ethiofencarb	ND	10	Halofenozide	ND	30
Aldicarb Sulfone	ND	10	Clethodim I	ND	10	Ethiprole	ND	10	Hexaconazole	ND	10
Aldicarb Sulfoxide	ND	10	Clethodim II	ND	10	Ethirimol	ND	10	Hexaflumuron	ND	10
Allethrin	ND	30	Clofentazine	ND	10	Ethoprophos	ND	10	Hexythiazox	ND	10
Ametryn	ND	10	Clomazone	ND	10	Etofenprox	ND	10	Imazalil	ND	10
Aminocarb	ND	10	Clothianidin	ND	10	Etoxazole	ND	10	Imidacloprid	ND	10
Aminopyralid	ND	30	Coumaphos	ND	10	Fenamidone	ND	10	Indoxacarb	ND	10
Amitraz	ND	10	Cyazofemid	ND	10	Fenarimol	ND	10	Iproconazole	ND	10
Azoxystrobin	ND	10	Cycluron	ND	10	Fenazaquin	ND	10	Iprovalicarb	ND	10
Benalaxyl	ND	10	Cymoxanil	ND	10	Fenbuconazole	ND	10	Isoprocarb	ND	10
Bendiocarb	ND	10	Cypermethrin	ND	30	Fenhexamid	ND	10	Isoproturon	ND	10
Benzovindiflupyr	ND	10	Cyproconazole I	ND	10	Fenobucarb	ND	10	Jasmolin I	ND	10
Benzoximate	ND	10	Cyproconazole II	ND	10	Fenoxycarb	ND	10	Jasmolin II	ND	10
Bifenazate	ND	30	Cyprodinil	ND	10	Fenpropimorph	ND	10	Kinoprene	ND	100
Bifenthrin	ND	10	Cyromazine	ND	10	Fenpyroximate	ND	10	Kresoxym-methyl	ND	10
Bitertanol	ND	10	Daminozide	ND	10	Fenuron	ND	10	Linuron	ND	10
Boscalid	ND	10	Deltamethrin	ND	30	Fipronil	ND	10	Lufenuron	ND	10
Bromuconazole I	ND	10	Desmedipham	ND	10	Fionicamid	ND	10	Malathion	ND	10
Bromuconazole II	ND	10	Diazinon	ND	10	Fluazifop	ND	10	Mandipropamid	ND	10
Bupirimate	ND	10	Diethlorvos	ND	10	Fluazinam	ND	10	Metenacet	ND	10
Buprofezin	ND	10	Dicrotophos	ND	10	Flufenacet	ND	10	Mepanipyrim	ND	10
Butafenacil	ND	10	Diethofencarb	ND	10	Flufenoxuron	ND	10	Mepronil	ND	10
Butocarboxim	ND	10	Difenoconazole	ND	10	Flumioxazin	ND	30	Mesotrione	ND	30
Butoxycarboxim	ND	10	Diflubenzuron	ND	10	Fluometuron	ND	10	Metaflumizone	ND	10
Captan	ND	10	Dimethoate	ND	10	Fluopyram	ND	10	Metalaxyl	ND	10
Carbaryl	ND	10	Dimethomorph I	ND	10	Fluoxastrobin	ND	10	Metconazole	ND	10
Carbendazim	ND	10	Dimethomorph II	ND	10	Fluquinconazole	ND	10	Methabenzthiazuron	ND	10
Carbetamide	ND	10	Dimoxystrobin	ND	10	Flusilazole	ND	10	Methamidophos	ND	10

ND = not detected above the LOQ (limit of quantitation)

The result applies only to the sample listed on this certificate. Avazyme cannot guarantee that this sample is representative of the product/lot as a whole. Avazyme warrants that this study was performed in accordance with appropriate laboratory research practices and protocols for the sample submitted. Avazyme is not responsible for Sponsor's use of the information or concepts generated as part of the study and will not be liable for any loss or damage resulting from such use.

AVAZYME

Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

CS0661_193940-006_P

Pesticides

Client Sample ID: 900034 BaSHCW

Sample Description: Dried Hemp

United Hemp Extracts
1510 Stantonsburg Rd. SE
Wilson, NC 27893



Results continued:

Pesticide	Conc. Detected	LOQ ppb	Pesticide	Conc. Detected	LOQ ppb	Pesticide	Conc. Detected	LOQ ppb	Pesticide	Conc. Detected	LOQ ppb
Methiocarb	ND	10	Pentachloronitrobenz	ND	10	Resmethrin	ND	10	Thiobencarb	ND	10
Methomyl	ND	10	Permethrin	ND	10	Rotenone	ND	10	Triphosphate-methyl	ND	10
Methoprotrolyne	ND	10	Phenothrin	ND	30	Sebumeton	ND	10	Triadimefon	ND	10
Methoxyfenozide	ND	10	Phosmet	ND	100	Siduron	ND	10	Triadimenol	ND	10
Metobromuron	ND	10	Picoxystrobin	ND	10	Simetryn	ND	10	Trichlorfon	ND	10
Metolachlor	ND	10	Piperonyl Butoxide	ND	10	Spinetoram J	ND	10	Tricyclazole	ND	10
Metribuzin	ND	10	Pirimicarb	ND	10	Spinetoram L	ND	10	Trifloxystrobin	ND	10
Mevinphos I	ND	10	Prallethrin	ND	10	Spinosyn A	ND	10	Triflumizole	ND	10
Mevinphos II	ND	10	Prochloraz	ND	10	Spinosyn D	ND	10	Triflumuron	ND	10
Mexacarbate	ND	10	Promecarb	ND	10	Spiromesifen	ND	10	Triticonazole	ND	10
MGK-264 I	ND	10	Prometon	ND	10	Spirotetramat	ND	10	Vamidothion	ND	10
MGK-264 II	ND	10	Prometryne	ND	10	Spiroxamine I	ND	10	Zoxamide	ND	10
Monocrotophos	ND	10	Propamocarb	ND	10	Spiroxamine II	ND	10			
Monolinuron	ND	10	Propargite	ND	30	Sulfentrazone	ND	10			
Moxidectin	ND	30	Propham	ND	30	Tebuconazole	ND	10			
Myelobutanil	ND	10	Propiconazole	ND	10	Tebufenozide	ND	10			
Naled	ND	30	Propoxur	ND	10	Tebufenpyrad	ND	10			
Neburon	ND	10	Prothioconazole	ND	30	Tebuthiuron	ND	10			
Nitenpyram	ND	10	Pymetrozine	ND	10	Teflubenzuron	ND	10			
Novaluron	ND	30	Pyracarbolid	ND	10	Temephos	ND	10			
Nuarimol	ND	10	Pyraclostrobin	ND	10	Terbutryn	ND	10			
Omethoate	ND	10	Pyrethrin I	ND	10	Tetraconazole	ND	10			
Oxadixyl	ND	10	Pyrethrin II	ND	10	Tetramethrin	ND	100			
Oxamyl	ND	10	Pyridaben	ND	10	Thiabendazole	ND	10			
Paclobutrazol	ND	10	Pyrimethanil	ND	10	Thiadoprid	ND	10			
Penconazole	ND	10	Pyriproxyfen	ND	10	Thiamethoxam	ND	10			
Pencycuron	ND	10	Quinoxifen	ND	10	Thidiazuron	ND	10			

ND = not detected above the LOQ (limit of quantitation)

The result applies only to the sample listed on this certificate. Avazyme cannot guarantee that this sample is representative of the product/lot as a whole. Avazyme warrants that this study was performed in accordance with appropriate laboratory research practices and protocols for the sample submitted. Avazyme is not responsible for sponsor's use of the information or concepts generated as part of the study and will not be liable for any loss or damage resulting from such use.



Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

CS0661_202102-001_T

Terpenes

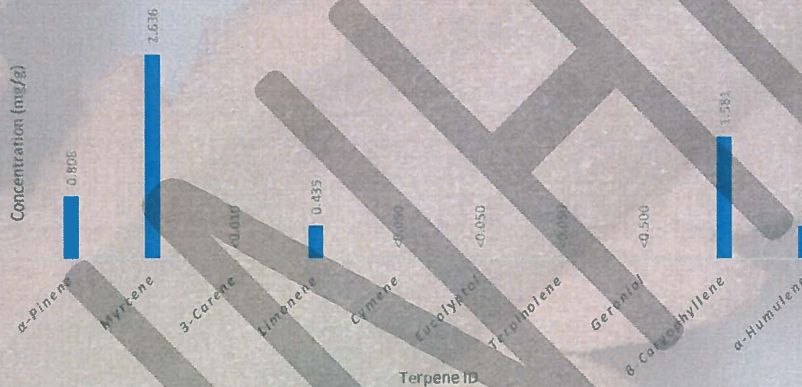
Client Sample ID: Buds 034 Suv Hz
Sample Description: Dried Hemp
Receive sample: 16-Jan-20
Initiate analyses: 17-Jan-20

United Hemp Extracts
1510 Stantonsburg RD SE
Wilson, NC 27893
Attn: Joseph Dzisam

Analyst: Tia Young	Signature: <i>Tia Young</i>	Date: 24-Jan-2020 16:21 EST
Reviewed by: Daren Stephens	Signature: <i>Daren Stephens</i>	Date: 24-Jan-2020 16:34 EST

Test Type: Terpene Profile
Technical Procedure: TP A0037-01

Results:



Chemical Analyzed	Concentration (mg/g)
α-Pinene	0.808
Myrcene	2.636
3-Carene	<0.010
Limonene	0.435
Cymene	<0.050
Eucalyptol	<0.050
Terpinolene	<0.050
Geraniol	<0.500
β-Caryophyllene	1.581
α-Humulene	0.431

Concentration of terpenes were determined by GC-MS with an Avazyme method utilizing certified reference standards for each chemical analyzed.

Avazyme warrants that this study was performed in accordance with appropriate laboratory research practices and protocols.

Avazyme is not responsible for Sponsor's use of the information or concepts generated as part of the study, and will not be liable for any loss or damage resulting from such use.

Eurofins Craft Technologies

 4344 Frank Price Church Road
 Wilson, NC 27893
 252-206-7071
 Craft_ClientServices@EurofinsUS.com

United Hemp Extracts

Client Code: YI0000460

 Joseph Dzisam
 1510 Stantonsburg Road SE
 Wilson 27893

ANALYTICAL REPORT

AR-19-YI-004581-02
 Report Supersedes AR-19-YI-004581-01

Received On: 18Nov2019
Reported On: 03Mar2020

Eurofins Sample Code: 129-2019-11180024		Sample Registration Date: 18Nov2019		
Client Sample Code: 900034 Composite		Condition Upon Receipt: acceptable, non-perishable		
Sample Description: Dry Hemp		Sample Reference:		
TK015 - Arsenic (As) in Foods by ICP-MS	Reference AOAC 2013.06	Accreditation ISO/IEC 17025:2017 A2LA 4204.01	Analysis Completed 09Dec2019	Sub ✓
Parameter Arsenic (As)	AS Is Basis 0.0720 mg/kg	Result	LOQ 0.016 mg/kg	
TK024 - Cadmium (Cd) in Foods by ICP-MS	Reference AOAC 2013.06	Accreditation ISO/IEC 17025:2017 A2LA 4204.01	Analysis Completed 09Dec2019	Sub ✓
Parameter Cadmium (Cd)	AS Is Basis 0.167 mg/kg	Result	LOQ 0.016 mg/kg	
TK048 - Mercury (Hg) in Foods by ICP-MS	Reference AOAC 2013.06	Accreditation ISO/IEC 17025:2017 A2LA 4204.01	Analysis Completed 09Dec2019	Sub ✓
Parameter Mercury	AS Is Basis <0.0180 mg/kg	Result	LOQ 0.018 mg/kg	
TK082 - Lead (Pb) in Foods by ICP-MS	Reference AOAC 2013.06	Accreditation ISO/IEC 17025:2017 A2LA 4204.01	Analysis Completed 09Dec2019	Sub ✓
Parameter Lead (Pb)	AS Is Basis 0.321 mg/kg	Result	LOQ 0.014 mg/kg	

Respectfully Submitted,



 Greg Hall
 Lab Support Specialist

Subcontracting partners:

 Eurofins Microbiology Laboratory
 (Colorado), CO
 Eurofins SF Analytical Laboratories, WI


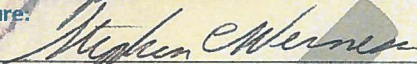
AVAZYME

Agriculture and Food Testing Solutions
CERTIFICATE OF ANALYSIS
 CS0661_193940-006_M

Mycotoxins

Client Sample ID: 900034 BaSHCW
Sample Description: Dried Hemp
Receive sample: 19-Nov-19
Initiate analyses: 22-Nov-19

CS0661
United Hemp Extracts
 1510 Stantonsburg Rd. SE
 Wilson, NC 27893

Analyst: Jacob Edwards	Signature: 	Date: 27 Nov 19
Reviewed by: Steve Werness	Signature: 	Date: 30 Nov 19

Analysis requested: Analysis of concentration of mycotoxins in customer supplied material

Results:

Mycotoxin	Concentration Detected	Mycotoxin	Concentration Detected
B1 Fumonisin	ND	Cytochalasin J	ND
B2 Fumonisin	ND	Cytochalasin H	ND
15-Acetyl-DON	ND	19,20-Epoxychochalsin C	ND
3-Acetyl-DON	ND	19,20-Epoxychochalsin D	ND
Deoxynivalenol	ND	Chaetoglobosin A	ND
Nivalenol	ND	Dihydrocytochalasin B	ND
Cytochalasin B	ND	Neosolanol	ND
Cytochalasin D	ND	Monoacetoxyscirpenol	ND
Cytochalasin A	ND	HT2-Toxin	ND
Cytochalasin E	ND	Ochratoxin B	ND
Cytochalasin C	ND	Alternariol	ND
Aflatoxin G2	ND	Alternariol ME	ND
Aflatoxin G1	ND	Sterigmatocystin	ND
Aflatoxin B1	ND	T2-Tetraol	ND
Aflatoxin B2	ND		
Zearalenone	ND		
Tenuazonic Acid	ND		
Diacetoxyscirpenol	ND		
Moniliformin	ND		
T2	ND		
Ochratoxin A	ND		
Fusarenone X	ND		

ppb = ng/g, ND= Not Detected Above LOQ (10ppb)

The result applies only to the sample listed on this certificate. Avazyme cannot guarantee that this sample is representative of the product/lot as a whole. Avazyme warrants that this study was performed in accordance with appropriate laboratory research practices and protocols for the sample submitted. Avazyme is not responsible for sponsor's use of the information or concepts generated as part of the study and will not be liable for any loss or damage resulting from such use.