

PRODUCT DATA

Certificate of Analysis

PRODUCT INFORMATION

Product:	Hemp Derived Whole Plant Finished Concentrate		
Description:	500 MG Per 1 FL OZ (30 mL) Total CBD in Ogranic MCT		
Hemp Source:	Sawyer Farm		
Cultivar:	Blend		
Product Batch ID:	W01S1019XN0-16B01MN		
Product Order ID:	SF19338W16		
Product Code:	W16MN		
Mfg Date:	5-Dec-19		



PRODUCT DATA					
Parameter	Test Procedure	Specification Units		Result	
Appearance (20 - 25°C)	ASTM E1627 - 11	Dark amber viscious liquid			PASS
Odor (20 - 25°C)	ASTM E1627 - 11	Floral, earthy	-		PASS
Total CBD (Potency)	C5210-LCUV (Internal)	1 FL OZ (30 mL)	MG	520	PASS
CBDA	C5210-LCUV (Internal)	≤ 0.05	mg/mL	< 0.05	PASS
Delta 9-THC	C5210-LCUV (Internal)	≤ 0.34	%w/w	0.07	PASS
THCA-A	C5210-LCUV (Internal)	≤ 0.05	%w/w	< 0.05	PASS
Minor Cannabinoids	C6198 LCMSMS (Internal)	≥ 0.01	%w/w	TBD	PASS
Terpenes	C5933-GCMS (Internal)	≥ 250	ppm	TBD	PASS
Residual Solvent	C5923-GCMS (Internal)	USP 467**	ppm		PASS
Heavy Metals*	ICPMS		ppb		PASS
Pesticides*	C5838 LCMSMS (Internal)		ppb		PASS
Mycotoxins*	C5838 LCMSMS (Internal)		ppb		PASS

*Results based on source whole plant concentrate prior to distillation

**Class I & II solvents methanol, pentane, ethanol, acetone, 2-propanol, acetonitrile, n-hexane, tetrahydrofuran, chloroform, n-heptane, toluene, xylene (m,p).

***Specification limits are set based on internal process monitoring and represent expected levels depending on the type of material described in this document.

****MDH - Massachusettes Department of Health

1-Dec-21

PRODUCT STABILITY

Recommended Storage:

20-25 ° C (68-77° F), Refrigerate for long term storage (> 3 months).

Avoid exposure to extreme hot or cold and protect from exposure to light.

IMPORTANT: Some data for this product are collected using NEP internal analytical testing procedures undergoing validation. Testing results will vary within reasonable procedure performance limits. Results demonstrating regulatory compliance are provided by NEP are for directional purposes in support of manufacturing processes and are not a substitute for 3rd party lab testing of this material. External testing denoted by "(External)" in procedure field is performed by MCR Labs (Framingham, MA USA); reports available upon request.

Approved by:

Retest Date:



Date:5-Dec-19Name:Keith Griswold, M.S.Title:Director of Analytics & Formulations



Certificate of Analysis

Minor Cannabinoids Product: Hemp De

Hemp Derived Whole Plant Finished Concentrate Product

Procedure ID:

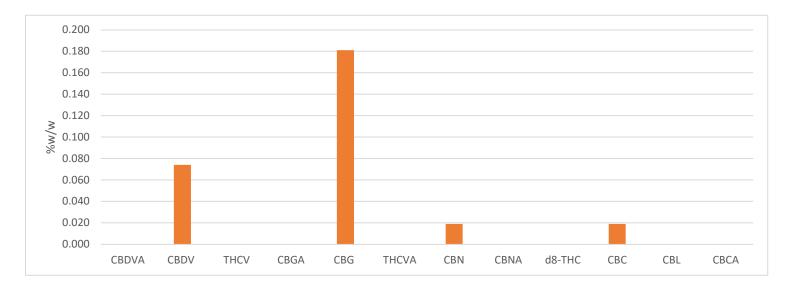
erived Whole Plant Finished Conc C6198 LCMSMS (Internal) Product Batch ID:

W01S1019XN0-16B01MN

Total Minor Cannabinoids:

0.29

%w/w



Analyte	Reporting Limit	%W/W	MG/G
Cannabidivarinic Acid (CBDVA)	0.01% w/w	< 0.01	-
Cannabidivarin (CBDV)	0.01% w/w	0.074	0.74
Tetrahdrocannabivarin (THCV)	0.01% w/w	< 0.01	-
Cannabigerolic Acid (CBGA)	0.01% w/w	< 0.01	-
Cannabigerol (CBG)	0.01% w/w	0.181	1.81
Tetrahdrocannabivarinic Acid (THCVA)	0.01% w/w	< 0.01	-
Cannabinol (CBN)	0.01% w/w	0.019	0.19
Cannabinolic Acid (CBNA)	0.01% w/w	< 0.01	-
Delta 8-THC	0.01% w/w	< 0.01	-
Cannabichromene (CBC)	0.01% w/w	0.019	0.19
Cannabicyclol (CBL)	0.01% w/w	< 0.01	-
Cannabichromic Acid (CBCA)	0.01% w/w	< 0.01	-



Certificate of Analysis

Terpene Profile Product: Hemp De Procedure ID:	rived Whole Plant Finished Concentrate	Product Batch ID:	W01S1019X	NO-16B01MN
FIOCEGUIE ID:	C5933-GCMS (Internal)	Total Terpenes:	0	ppm
Analyte	Units	Reporting I	.imit	Results
α-Pinene	PPM	2		
Camphene	PPM	2		
Sabinene-	PPM	2		
β-Pinene	PPM	2		
β-Myrcene	PPM	2		
.α-Phellandrene	PPM	2		
Carene	PPM	2		
α -Terpinene	PPM	2		
D-Limonene	PPM	2		
o-Cymene	PPM	2		
Eucalyptol	PPM	2		
β-Ocimene	PPM	2		
γTerpinene	PPM	2		
Terpinolene	PPM	2		
Sabinene Hydrate	PPM	2		
Fenchone	PPM	2		
Linalool	PPM	2		
Fenchol	PPM	2		
Isopulegol	PPM	2		
Camphor	PPM	2		
Isoborneol	PPM	2		
Menthol	PPM	2		
endo-Borneol	PPM	2		
α-Terpineol	PPM	2		
γTerpineol	PPM	2		
Nerol	PPM	2		
Pulegone	PPM	2		
Geraniol	PPM	2		
Geranyl acetate	PPM	2		
α-Cedrene	PPM	2		
(E)-β-Famesene	PPM	2		
Caryophyllene	PPM	2		
α-Humulene	PPM	2		
trans-Neradiol	PPM	2		
cis-Neradiol	PPM	2		
Valencene	PPM	2		
Guaiol	PPM	2		
Caryophyllene Oxide	PPM	2		
Cedrol	PPM	2		
α-Bisabolol	PPM	2		

*BQL - Below quantitation limit; representat



Certificate of Analysis

Residual Solvents

Product: Hemp D Procedure ID:

Hemp Derived Whole Plant Finished Concentrate C5923-GCMS (Internal) Product Batch ID:

W01S1019XN0-16B01MN

Analyte	Units	Reporting Limit	MRL (USP 467)	Result	
Methanol	ppm	25	< 3000	< 25	PASS
Pentane	ppm	25	< 5000	< 25	PASS
Ethanol	ppm	25	< 5000	509	PASS
Acetone	ppm	25	< 5000	<25	PASS
Isopropanol	ppm	25	< 5000	39	PASS
Acetonitrile	ppm	25	< 410	< 25	PASS
n-Hexane	ppm	25	< 290	< 25	PASS
Tetrahydrofuran	ppm	25	< 720	< 25	PASS
Chloroform	ppm	25	< 60	< 25	PASS
n-Heptane	ppm	25	< 5000	<25	PASS
Toluene	ppm	25	< 890	< 25	PASS
m & p Xylene	ppm	25	< 2170	< 25	PASS