

# CERTIFICATE OF ANALYSIS

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## PRODUCT INFORMATION

**Product:** Hemp Derived Refined Concentrate  
**Description:** 20 mg/mL Total CBD in Organic MCT  
**Mfg Date:** 24-Sep-19  
**Biomass Source:** Vermont, USA  
**Cultivar:** Blend  
**Product Batch ID:** M1F5880X0-40B01MN  
**Product Code:** M1N40MN



**Product of Vermont USA**

## PRODUCT DATA

Parameter	Test Procedure	Specification	Units	Result	
Appearance (20 - 25°C)	ASTM E1627 - 11	Amber viscous liquid		PASS	
Odor (20 - 25°C)	ASTM E1627 - 11	Lightly floral, earthy	-	PASS	
<b>Total CBD (Potency)</b>	<b>C5210-LCUV (Internal)</b>	<b>40 - 45</b>	<b>mg/mL</b>	<b>42.5</b>	<b>PASS</b>
CBDA	C5210-LCUV (Internal)	≤ 10	%w/w	< 0.05	PASS
<b>Delta 9-THC</b>	<b>C5210-LCUV (Internal)</b>	<b>≤ 0.34</b>	<b>%w/w</b>	<b>0.15</b>	<b>PASS</b>
THCA-A	C5210-LCUV (Internal)	≤ 0.05	%w/w	< 0.05	PASS
Minor Cannabinoids	C6198 LCMSMS (Internal)	≥ 0.5	mg/g	1.41	PASS
Terpenes	C5933-GCMS (Internal)	≥ 100	PPM	816	PASS
Water Activity	D8196-18	≤ 0.600	Aw	0.402	PASS
Residual Solvent	C5923-GCMS (Internal)	USP 467	ppm	-	PASS
Microbiological Screen*	MCR-TM-00006 (External)	MDH Exhibit 6	-	S19-02148	PASS
Heavy Metals	MCR-TM-00006 (External)	MDH Exhibit 4	ppb	S19-02148	PASS
Pesticides*	MCR-TM-00009 (External)	MDH Exhibit 5	ppb	S19-02148	PASS
Mycotoxins*	MCR-TM-00013 (External)	MDH Exhibit 6	ppb	S19-02148	PASS

## PRODUCT STABILITY

**Recommended Storage:** 20-25 ° C (68-77° F), Refrigerate for long term storage (> 3 months).  
**Retest Date:** 1-Oct-21 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:**

**Date:** 8-Oct-19  
**Name:** Keith Griswold, M.S.  
**Title:** Director of Analytics & Formulations

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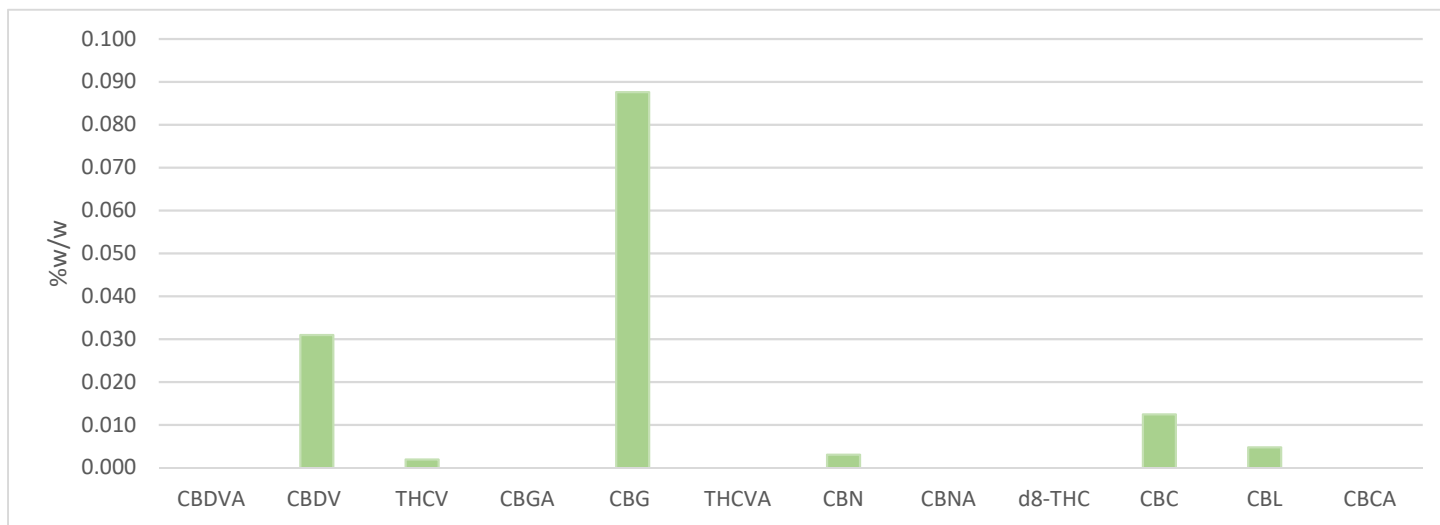
## Minor Cannabinoids

**Product:** Hemp Derived Refined Concentrate

**Product Batch ID:** M1F5880X0-40B01MN

**Procedure ID:** C6198 LCMSMS (Internal)

**Total Minor Cannabinoids:** 1.4 mg/g



Analyte	Reporting Limit	%W/W	MG/G
Cannabidivarinic Acid (CBDVA)	0.001% w/w	Non Detect	-
Cannabidivarin (CBDV)	0.001% w/w	0.0310	0.31
Tetrahydrocannabivarin (THCV)	0.001% w/w	0.0020	0.02
Cannabigerolic Acid (CBGA)	0.001% w/w	Non Detect	-
Cannabigerol (CBG)	0.001% w/w	0.0876	0.88
Tetrahydrocannabivarinic Acid (THCVA)	0.001% w/w	Non Detect	-
Cannabinol (CBN)	0.001% w/w	0.003	0.03
Cannabinolic Acid (CBNA)	0.001% w/w	Non Detect	-
Delta 8-THC	0.001% w/w	Non Detect	-
Cannabichromene (CBC)	0.001% w/w	0.013	0.13
Cannabicyclol (CBL)	0.001% w/w	0.005	0.05
Cannabichromic Acid (CBCA)	0.001% w/w	Non Detect	-

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## Terpene Profile

**Product:** Hemp Derived Refined Concentrate  
**Procedure ID:** C5933-GCMS (Internal)

**Product Batch ID:** M1F5880X0-40B01MN

**Total Terpenes:** 816 ppm

Analyte	Units	Reporting Limit	Results
$\alpha$ -Pinene	PPM	2	Non Detect
Camphene	PPM	2	Non Detect
Sabinene-	PPM	2	Non Detect
$\beta$ -Pinene	PPM	2	Non Detect
$\beta$ -Myrcene	PPM	2	29
$\alpha$ -Phellandrene	PPM	2	Non Detect
Carene	PPM	2	Non Detect
$\alpha$ -Terpinene	PPM	2	Non Detect
D-Limonene	PPM	2	5
o-Cymene	PPM	2	Non Detect
Eucalyptol	PPM	2	Non Detect
$\beta$ -Ocimene	PPM	2	Non Detect
$\gamma$ Terpinene	PPM	2	Non Detect
Terpinolene	PPM	2	Non Detect
Sabinene Hydrate	PPM	2	Non Detect
Fenchone	PPM	2	Non Detect
Linalool	PPM	2	108
Fenchol	PPM	2	Non Detect
Isopulegol	PPM	2	Non Detect
Camphor	PPM	2	Non Detect
Isoborneol	PPM	2	Non Detect
Menthol	PPM	2	Non Detect
endo-Borneol	PPM	2	Non Detect
$\alpha$ -Terpineol	PPM	2	Non Detect
$\gamma$ Terpineol	PPM	2	< 2
Nerol	PPM	2	< 2
Pulegone	PPM	2	Non Detect
Geraniol	PPM	2	Non Detect
Geranyl acetate	PPM	2	< 2
$\alpha$ -Cedrene	PPM	2	Non Detect
(E)- $\beta$ -Famesene	PPM	2	Non Detect
Caryophyllene	PPM	2	389
$\alpha$ -Humulene	PPM	2	137
trans-Neradiol	PPM	2	Non Detect
cis-Neradiol	PPM	2	< 2
Valencene	PPM	2	Non Detect
Guaial	PPM	2	Non Detect
Caryophyllene Oxide	PPM	2	118
Cedrol	PPM	2	Non Detect
$\alpha$ -Bisabolol	PPM	2	31

\*BQL - Below quantitation limit

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## Residual Solvents

**Product:** Hemp Derived Refined Concentrate  
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Analyte	Units	Reporting Limit	MRL (USP 467)	Result
Methanol	ppm	25	< 3000	< 25 PASS
Pentane	ppm	25	< 5000	< 25 PASS
Ethanol	ppm	25	< 5000	112 PASS
Acetone	ppm	25	< 5000	< 25 PASS
Isopropanol	ppm	25	< 5000	< 25 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