

# Certificate of Analysis

## PRODUCT INFORMATION

**Product:** Hemp Derived Distilled Concentrate  
**Description:** 1000 mg Total CBD per 1 fl oz in All Natural MCT  
**Flavoring:** Vanilla Caramel  
**Mfg Date:** 12-Sep-19  
**Biomass Source:** Vermont, USA  
**Product Batch ID:** D1N5880X0-33B10MA  
**Production Order ID** EH091319D33VC



**Product of Vermont USA**

## PRODUCT DATA

Parameter	Test Procedure	Specification	Units	Result
Appearance (20 - 25°C)	ASTM E1627 - 11	Amber amorphous solid	-	PASS
Odor (20 - 25°C)	ASTM E1627 - 11	Floral, earthy	-	PASS
Total CBD (Potency)	C5210-LCUV (Internal)	1000 - 1150	mg/30 mL	1076 PASS
CBDA	C5210-LCUV (Internal)	≤ 10	%w/w	< 0.05 PASS
Delta 9-THC	C5210-LCUV (Internal)	≤ 0.34	%w/w	0.18 PASS
THCA-A	C5210-LCUV (Internal)	≤ 0.05	%w/w	< 0.05 PASS
Minor Cannabinoids	C6194-LCMSMS (Internal)	≥ 0.01	%w/w	0.09 PASS
Water Activity	D8196-18	≤ 0.600	Aw	0.426 PASS
Residual Solvent	C5923-GCMS (Internal)	USP 467**	ppm	PASS
Microbiological Screen*	MCR-TM-00006 (External)	MDH Exhibit 6	-	PASS
Heavy Metals	MCR-TM-00006 (External)	MDH Exhibit 4	ppb	PASS
Pesticides*	MCR-TM-00009 (External)	MDH Exhibit 5	ppb	PASS
Mycotoxins*	MCR-TM-00013 (External)	MDH Exhibit 6	ppb	PASS

\*Results based on source whole plant concentrate prior to distillation; MCR Labs (Framingham, MA).

\*\*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 - Massachusetts Department of Health

## PRODUCT STABILITY

**Recommended Storage:** 20-25 ° C (68-77° F), Refrigerate for long term storage (> 3 months).  
**Retest Date:** 1-Sep-21 Avoid exposure to extreme hot or cold and protect from exposure to light.  
**NOTE:** Product will grow darker in color with 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 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:**

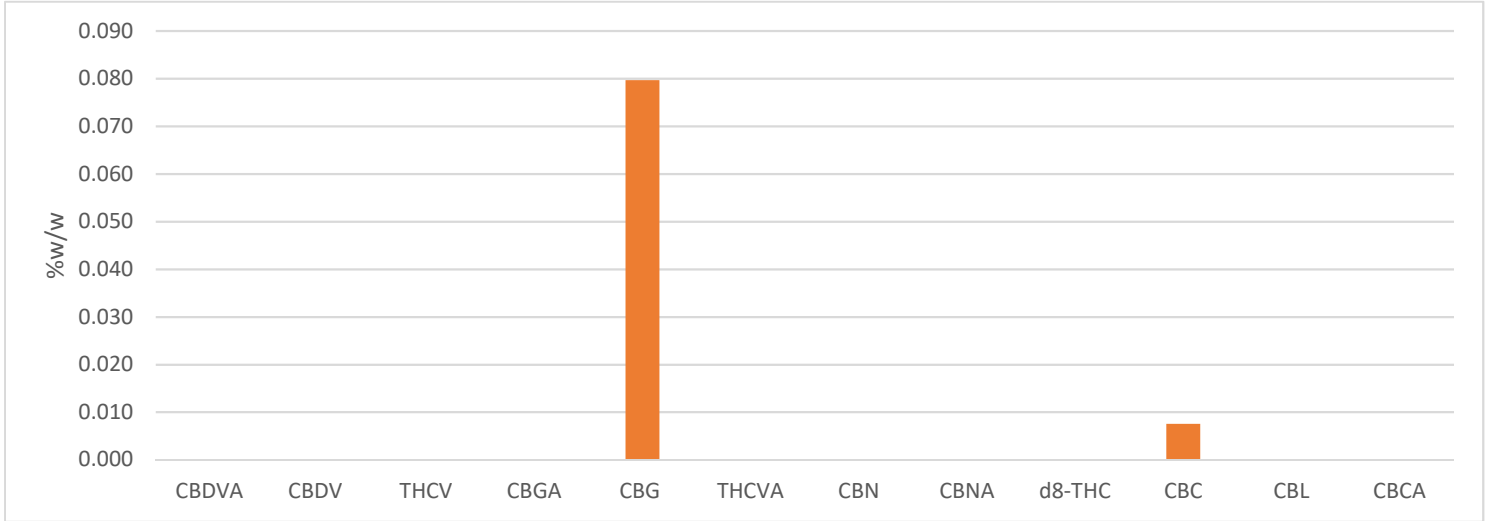
**Date:** 27-Sep-19  
**Name:** Keith Griswold, M.S.  
**Title:** Director of Analytics & Formulations

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## Minor Cannabinoids

**Product:** Hemp Derived Distilled Concentrate      **Product Batch ID:** D1N5880X0-33B10MA  
**Procedure ID:** C6198 LCMSMS (Internal)

**Total Minor Cannabinoids:**      **0.09**      %w/w



Analyte	Reporting Limit	%W/W	MG/G
Cannabidivarinic Acid (CBDVA)	0.005 %w/w	Non Detect	-
Cannabidivarin (CBDV)	0.005 %w/w	Non Detect	-
Tetrahydrocannabivarin (THCV)	0.005 %w/w	< 0.005	-
Cannabigerolic Acid (CBGA)	0.005 %w/w	Non Detect	-
Cannabigerol (CBG)	0.005 %w/w	0.080	0.80
Tetrahydrocannabivarinic Acid (THCVA)	0.005 %w/w	Non Detect	-
Cannabinol (CBN)	0.005 %w/w	< 0.005	-
Cannabinolic Acid (CBNA)	0.005 %w/w	Non Detect	-
Delta 8-THC	0.005 %w/w	< 0.005	-
Cannabichromene (CBC)	0.005 %w/w	0.008	0.08
Cannabicyclol (CBL)	0.005 %w/w	< 0.005	-
Cannabichromic Acid (CBCA)	0.005 %w/w	Non Detect	-

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## Residual Solvents

**Product:** Hemp Derived Distilled Concentrate  
**Procedure ID:** C5923-GCMS (Internal)

**Product Batch ID:** D1N5880X0-33B10MA

Analyte	Units	Reporting Limit	MRL (USP 467)	Result	Result
Methanol	ppm	25	< 3000	< 25	PASS
Pentane	ppm	25	< 5000	<25	PASS
Ethanol	ppm	25	< 5000	164	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