

# Certificate of Analysis

## PRODUCT INFORMATION

**Product:** Hemp Derived CBD Rich Vape Cartridge  
**Flavor:** Tahoe OG  
**Mfg Date:** 20-Aug-19  
**Biomass Source:** Vermont, USA  
**Cultivar:** Blend  
**Product Batch ID:** C1F8757X0-OG19262  
**Product Code:** VP2JT

*No Added VG*  
*No Added PG*  
*No Added MCT*  
*No Added PEG 400*  
*No Added Triethyl Citrate*  
*No Added Alpha-Tocopherol Acetate*  
*No Added Mineral Oil*



**Product of Vermont USA**

## PRODUCT DATA

Parameter	Test Procedure	Specification	Units	Result
Appearance (20 - 25°C)	ASTM E1627 - 11	Light amber viscous liquid		PASS
Odor (20 - 25°C)	ASTM E1627 - 11	Citrius, floral	-	PASS
Total CBD (Potency)	C5210-LCUV (Internal)	500 - 550	mg/g	509 PASS
CBDA	C5210-LCUV (Internal)	≤ 0.05	%w/w	< 0.05 PASS
Delta 9-THC	C5210-LCUV (Internal)	≤ 0.34	%w/w	< 0.05 PASS
THCA-A	C5210-LCUV (Internal)	≤ 0.05	%w/w	< 0.05 PASS
Minor Cannabinoids	C6198-LCMSMS (Internal)	≥ 0.1	%w/w	0.98 PASS
Water Activity	D8196-18	≤ 0.600	Aw	0.401 PASS
Residual Solvent	C5923 GCMS (Internal)	USP 467	ppm	- PASS
Microbiological Screen	MCR-TM-00006 (External)	MDH Exhibit 6	-	MCR-S1902147 PASS
Heavy Metals	MCR-TM-00008 (External)	MDH Exhibit 4	ppb	MCR-S1912957 PASS
Pesticides	MCR-TM-00009 (External)	MDH Exhibit 5	ppb	MCR-S1902147 PASS
Mycotoxins	MCR-TM-00013 (External)	MDH Exhibit 6	ppb	MCR-S1902147 PASS

\*Results based on source whole plant concentrate prior to distillation

\*\*Third party testing performed at MCR Labs (Framingham, MA), reports available upon request.

\*\*\*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); Ambient temperature storage required to prevent CBD shock out.

**Retest Date:** 1-Nov-21 Avoid exposure to extreme hot or cold and protect from exposure to light.

**NOTE:** Exposure to cold temperature may cause CBD shock out.

**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:** 15-Nov-19

**Name:** Keith Griswold, M.S.

**Title:** Director of Analytics & Formulations

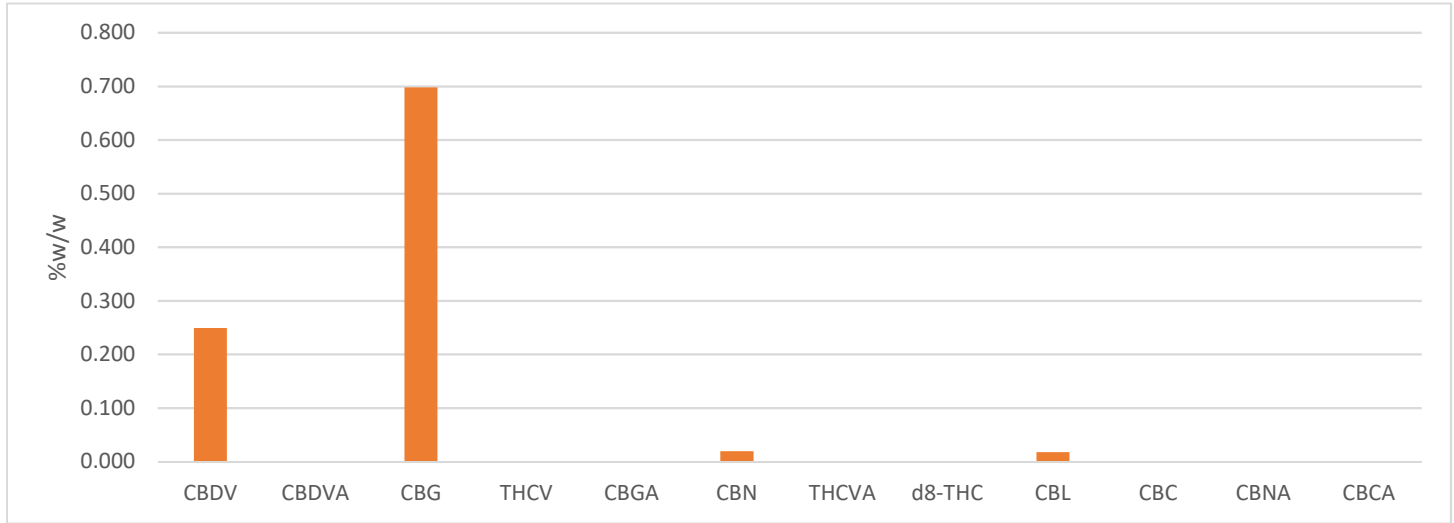
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## Minor Cannabinoids

**Product:** Hemp Derived CBD Rich Vape Cartridge  
**Procedure ID:** C6198-LCMSMS (Internal)

**Product Batch ID:** C1F8757X0-OG19262

**Total Minor Cannabinoids:** **0.98** %w/w



Analyte	Reporting Limit	%W/W	MG/G
Cannabidivarin (CBDV)	0.01% W/W	0.249	2.49
Cannabidivarinic Acid (CBDVA)	0.01% W/W	Non Detect	-
Cannabigerol (CBG)	0.01% W/W	0.698	6.98
Tetrahydrocannabivarin (THCV)	0.01% W/W	Non Detect	-
Cannabigerolic Acid (CBGA)	0.01% W/W	Non Detect	-
Cannabinol (CBN)	0.01% W/W	0.019	0.19
Tetrahydrocannabivarinic Acid (THCVA)	0.01% W/W	Non Detect	-
Delta 8-THC	0.01% W/W	Non Detect	-
Cannabicyclol (CBL)	0.01% W/W	0.018	0.18
Cannabichromene (CBC)	0.01% W/W	Non Detect	-
Cannabinolic Acid (CBNA)	0.01% W/W	Non Detect	-
Cannabichromic Acid (CBCA)	0.01% W/W	Non Detect	-

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## Residual Solvents

**Product:** Hemp Derived CBD Rich Vape Cartridge  
**Procedure ID:** C5923 GCMS (Internal)

**Product Batch ID:** C1F8757X0-OG19262

Analyte	Units	Reporting Limit	MRL (USP 467)		Result
Methanol	ppm	25	< 3000	< 25	PASS
Pentane	ppm	25	< 5000	< 25	PASS
Ethanol	ppm	25	< 5000	134	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