

Certificate of Analysis

PRODUCT INFORMATION

Product: Hemp Derived CBD Rich Vape Cartridge
Flavor: OG Kush
Mfg Date: 29-Aug-19
Biomass Source: Vermont, USA
Cultivar: Blend
Product Batch ID: C1F8757X0-OGK19242
Product Code: VP3JT



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	mg/g	500.4 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	C7414 LCMS (Internal)	≥ 0.1	%w/w	0.98 PASS
Terpenes	C5933-GCMS (Internal)	Proprietary Blend	%w/w	Not Reported PASS
Water Activity	D8196-18	≤ 0.600	Aw	0.425 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), Refrigerate for long term storage (> 3 months).

Retest Date: 1-Aug-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: 3-Sep-19

Name: Keith Griswold, M.S.

Title: Director of Analytics & Formulations

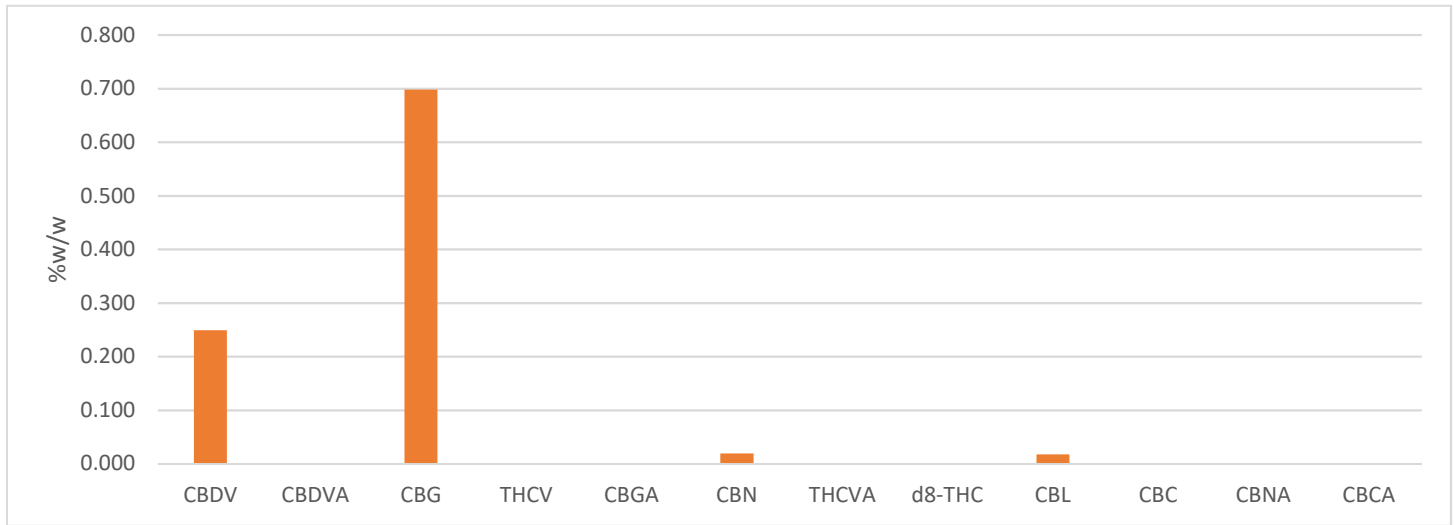
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Minor Cannabinoids

Product: Hemp Derived CBD Rich Vape Cartridge
Procedure ID: C7414 LCMS (Internal)

Product Batch ID: C1F8757X0-OGK19242

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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Terpene Profile

Product: Hemp Derived CBD Rich Vape Cartridge
Procedure ID: C5933-GCMS (Internal)

Product Batch ID: C1F8757X0-OGK19242

Total Terpenes:		NR	ppm	NR	%w/w
Analyte	Units	Reporting Limit		Results	
α-Pinene	PPM	100		NR	
Camphene	PPM	100		NR	
Sabinene	PPM	100		NR	
β-Pinene	PPM	100		NR	
β-Myrcene	PPM	100		NR	
.α-Phellandrene	PPM	100		NR	
Carene	PPM	100		NR	
α-Terpinene	PPM	100		NR	
D-Limonene	PPM	100		NR	
o-Cymene	PPM	100		NR	
Eucalyptol	PPM	100		NR	
β-Ocimene	PPM	100		NR	
γTerpinene	PPM	100		NR	
Terpinolene	PPM	100		NR	
Sabinene Hydrate	PPM	100		NR	
Fenchone	PPM	100		NR	
Linalool	PPM	100		NR	
Fenchol	PPM	100		NR	
Isopulegol	PPM	100		NR	
Camphor	PPM	100		NR	
Isoborneol	PPM	100		NR	
Menthol	PPM	100		NR	
endo-Borneol	PPM	100		NR	
α-Terpineol	PPM	100		NR	
γ Terpineol	PPM	100		NR	
Nerol	PPM	100		NR	
Pulegone	PPM	100		NR	
Geraniol	PPM	100		NR	
Geranyl acetate	PPM	100		NR	
α-Cedrene	PPM	100		NR	
(E)-β-Famesene	PPM	100		NR	
Caryophyllene	PPM	100		NR	
α-Humulene	PPM	100		NR	
trans-Neradiol	PPM	100		NR	
cis-Neradiol	PPM	100		NR	
Valencene	PPM	100		NR	
Guaiol	PPM	100		NR	
Caryophyllene Oxide	PPM	100		NR	
Cedrol	PPM	100		NR	
α-Bisabolol	PPM	100		NR	

*BQL - Below quantitation limit



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Residual Solvents

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

Product Batch ID: C1F8757X0-OGK19242

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