

Certificate of Analysis

PRODUCT INFORMATION

Product: Hemp Derived CBD Rich Vape Cartridge
Flavor: GG4
Mfg Date: 19-Sep-19
Biomass Source: Vermont, USA
Cultivar: Blend
Product Batch ID: C1F8757X0-GG19262
Product Code: VP2JT

Product of Vermont USA

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 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 | Earthy | - | PASS |
| Total CBD (Potency) | C5210-LCUV (Internal) | 500 - 550 | mg/g | 501 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 | 0.81 PASS |
| Water Activity | D8196-18 | ≤ 0.600 | Aw | 0.514 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

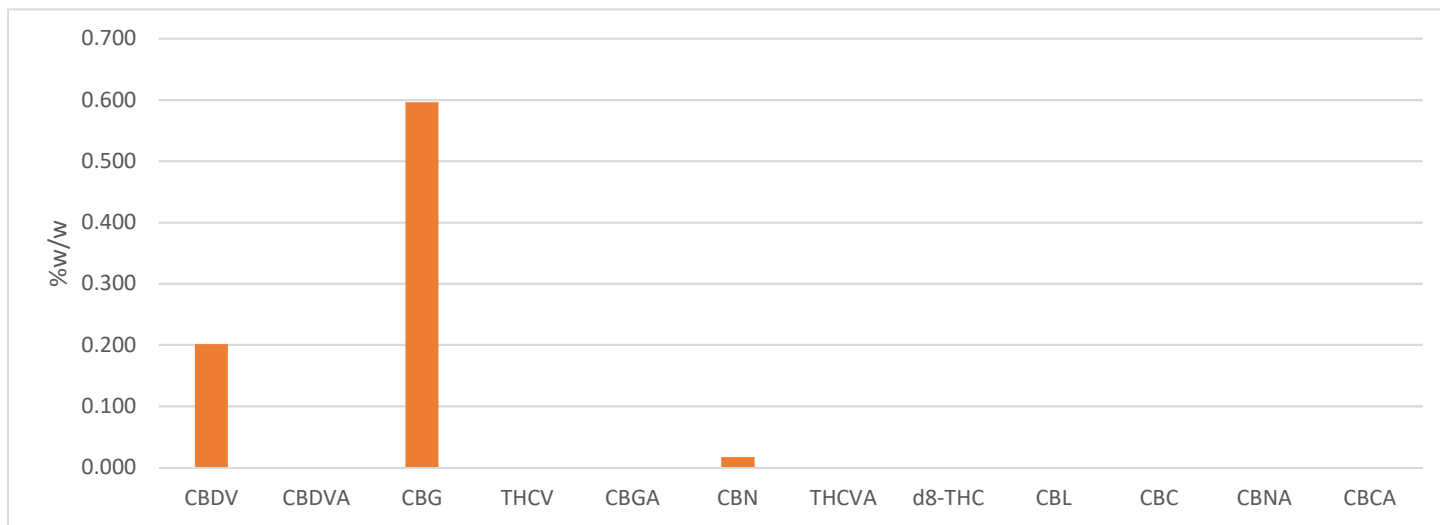
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Minor Cannabinoids

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

Product Batch ID: C1F8757X0-GG19262

Total Minor Cannabinoids: 0.81 %w/w



| Analyte | Reporting Limit | %W/W | MG/G |
|---------------------------------------|-----------------|------------|------|
| Cannabidivarin (CBDV) | 0.01% W/W | 0.201 | 2.01 |
| Cannabidivarinic Acid (CBDVA) | 0.01% W/W | Non Detect | - |
| Cannabigerol (CBG) | 0.01% W/W | 0.596 | 5.96 |
| Tetrahydrocannabivarin (THCV) | 0.01% W/W | Non Detect | - |
| Cannabigerolic Acid (CBGA) | 0.01% W/W | Non Detect | - |
| Cannabinol (CBN) | 0.01% W/W | 0.017 | 0.17 |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.01% W/W | Non Detect | - |
| Delta 8-THC | 0.01% W/W | Non Detect | - |
| Cannabicyclol (CBL) | 0.01% W/W | < 0.01 | - |
| 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

Product Batch ID: C1F8757X0-GG19262

Procedure ID: C5923 GCMS (Internal)

| Analyte | Units | Reporting Limit | MRL (USP 467) | Result | |
|-----------------|-------|-----------------|---------------|--------|------|
| Methanol | ppm | 25 | < 3000 | < 25 | PASS |
| Pentane | ppm | 25 | < 5000 | < 25 | PASS |
| Ethanol | ppm | 25 | < 5000 | 129 | 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 |