



# Certificate of Analysis

**COMPLIANCE FOR RETAIL**

**Sample:** GA00710001-001  
**Harvest/Lot ID:** PHFV100-200707-01  
**Batch#:** DF-JACK-063020  
**Seed to Sale#** PHFV100-200707-01  
**Batch Date:** 07/07/20  
**Sample Size Received:** 15 gram  
**Retail Product Size:** 0.5  
**Ordered :** 07/10/20  
**Sampled :** 07/10/20  
**Completed:** 07/16/20  
**Sampling Method:** SOP.T.20.010

Jul 16, 2020 | Liberty Health Sciences, FL

18770 N CR 225  
Gainesville, FL, 32609, US

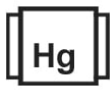
**PASSED**

Pages 1 of 2

**PRODUCT IMAGE**


Vape Cartridge

**SAFETY RESULTS**

Pesticides  
**PASSED**

Heavy Metals  
**PASSED**

Microbials  
**PASSED**

Mycotoxins  
**PASSED**

Residuals Solvents  
**PASSED**

Filtration  
**PASSED**

Water Activity  
**PASSED**

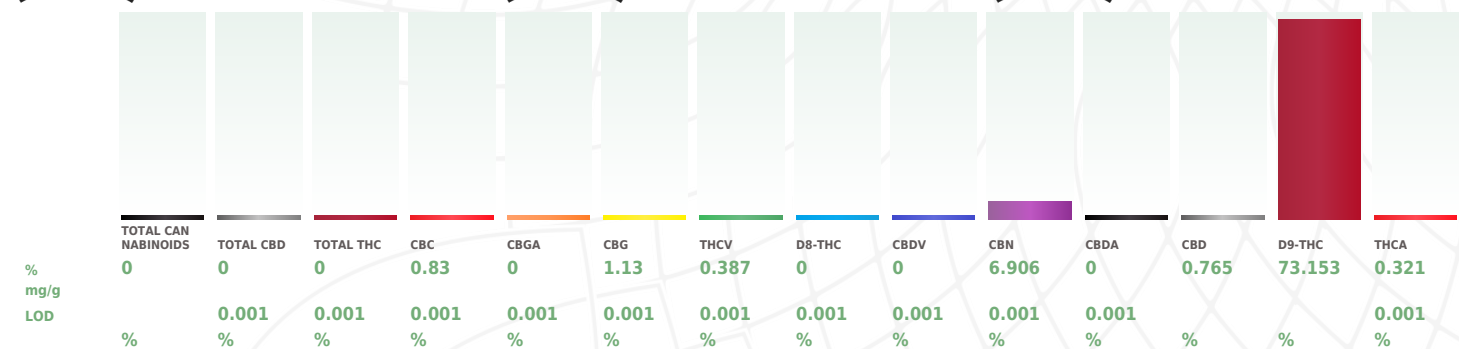
Moisture  
**NOT TESTED**

Terpenes  
**TESTED**
**MISC.**

**Cannabinoid**
**PASSED**

**Total THC**  
**0%**

**Total CBD**  
**0%**

**Total Cannabinoids**  
**0%**


Analyzed by: 508      Weight: 0.1012g      Extraction date: 07/14/20 11:07:44      Extracted by: 650

Analysis Method : SOP.T.40.031, SOP.T.30.031  
 Analytical Batch : GA013946POT  
 Instrument Used : GA-HPLC-001 2030C Plus  
 Analyzed Date : N/A

Reviewed On : 07/16/20 16:22:05  
 Batch Date : 07/14/20 11:37:20

Dilution : 400  
 Reagent : 042720.08; 062620.R14; 070720.R02  
 Consumables : 280670882; VAV-09-1020 Lot# 947.077; 6970145500298; 190624060; 16466-042  
 Pipette : N/A

Full Spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.

This Kaycha Labs Certification shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. The results relate only to the material or product analyzed. ND=Not Detected, ppm=Parts Per Million, ppb=Parts Per Billion, RSD=Relative Standard Deviation. Limit of Detection (LOD) and Limit Of Quantitation (LOQ) are terms used to describe the smallest concentration that can be detected and reliably measured by an analytical procedure, respectively. Action Levels are State determined thresholds based on F.S. Rule 64ER20-39 and F.S. Rule 5K-4. The Measurement of Uncertainty (MU) error is available from the lab upon request. The "Decision Rule" for pass/fail does not include the MU. Any calculated totals may contain rounding errors.

**Miranda MacDonald**  
 Lab Director

State License # CMTL-0001  
 ISO 17025 Accreditation # ISO/IEC  
 17025:2017 Accreditation P/LA-  
 Testing 97164

  
 Signature  
 07/16/20



# Certificate of Analysis

**PASSED**

Liberty Health Sciences, FL

 18770 N CR 225  
 Gainesville, FL, 32609, US  
 Telephone: (833) 254-4877  
 Email: Qualityassurance@libertyhealthsciences.com

Sample : GA00710001-001

Harvest/Lot ID: PHFV100-200707-01

Batch# : DF-JACK-063020

Sampled : 07/10/20

Ordered : 07/10/20

Sample Size Received : 15 gram

Completed : 07/16/20 Expires: 07/16/21

Sample Method : SOP.T.20.010

Page 2 of 2



## Terpenes

**TESTED**

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
ALPHA-CEDRENE	0.007	0			EUCALYPTOL	0.007	0.75	0.075	
ALPHA-HUMULENE	0.007	0.419			ISOBORNEOL	0.007	0	0	
ALPHA-PINENE	0.007	0.281			HEXAHYDROTHYMOL	0.007	0	0	
ALPHA-TERPINENE	0.007	0.169			FENCHYL ALCOHOL	0.007	1.36	0.136	
BETA-MYRCENE	0.007	0.464			3-CARENE	0.007	1.87	0.187	
BETA-PINENE	0.007	0.354			CIS-NEROLIDOL	0.007	0	0	
BORNEOL	0.013	0			ISOPULEGOL	0.007	0	0	
CAMPHENE	0.007	0.033			Analyzed by: 508      Weight: 1.0239g      Extraction date: 07/13/20 10:07:31      Extracted by: 650				
CAMPHOR	0.013	0.041			Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL				
CARYOPHYLLE OXIDE	0.007	0			Analytical Batch : GA013876TER      Reviewed On : 07/16/20 15:59:51				
CEDROL	0.007	0			Instrument Used : GA-GCMS-002 QP2010S      Batch Date : 07/13/20 09:14:40				
ALPHA-BISABOLOL	0.007	0			Analyzed Date : N/A				
SABINENE	0.007	0.047			Dilution : 100				
SABINENE HYDRATE	0.007	0			Reagent : 041420.24				
TERPINEOL	0.007	0.391			Consumables : 280670882; VAV-09-1020 Lot# 947.077; 6970145500298; P7344091 / P7312914; 16466-042				
TERPINOLENE	0.007	2.951			Pipette : N/A				
BETA-CARYOPHYLLENE	0.007	1.639			Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.				
TRANS-NEROLIDOL	0.007	0.396							
VALENCENE	0.007	0.591							
PULEGONE	0.007	0							
ALPHA-PHELLANDRENE	0.007	0.198							
OCIMENE	0.007	0.375							
NEROL	0.007	0							
LINALOOL	0.007	0.253							
LIMONENE	0.007	0.641							
GUAJOL	0.007	0.166							
GERANYL ACETATE	0.007	0							
GERANIOL	0.007	0.204							
GAMMA-TERPINENE	0.007	0.052							
FENCHONE	0.007	0							
FARNESENE	0.007	0							
Total (%)		10.063							