

Certificate of Analysis

Batch number: BB20109



HempSapa

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CZ06116329

Final Product: FreeFlow Distillate

Date of Manufacture: March 2020

Test	Methodology	Specification	Test Results (Average)*	Pass/Fail	
Visual	Color and Appearance	TM-004 (Visual)	Amber, semifluid at room temperature.	Conforms	Pass
Cannabinoid Identification		TM-001 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
		TM-001 (DAD UV Spectrum)	UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
CBD Potency	CBD(%w/w)	TM-001 (HPLC - DAD)	45.000 - 60.000 %w/w	53.6	Pass
THC Content	THC(%w/w)	TM-001 (HPLC - DAD)	≤0.2 %w/w	0.143	Pass
	THCA(%w/w)	TM-001 (HPLC - DAD)	≤0.2 %w/w	ND	Pass
Related Cannabinoid Content	Total THC(%w/w)	TM-001 (HPLC - DAD)	≤0.2 %w/w	0.143	Pass
CBG Content	CBG(%w/w)	TM-001 (HPLC - DAD)	>=2.5 %w/w	12.498	Pass
Related Cannabinoid Content	CBN(%w/w)	TM-001 (HPLC - DAD)	Report	0.096	NA
	cis-THC(%w/w)	TM-001 (HPLC - DAD)	Report	0.109	NA
	delta 8-THC(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	THCV(%w/w)	TM-001 (HPLC - DAD)	Report	0.203	NA
	THCVA(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBC(%w/w)	TM-001 (HPLC - DAD)	Report	0.235	NA
	CBCA(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBDA(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBDVA(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBDV(%w/w)	TM-001 (HPLC - DAD)	Report	4.716	NA
	CBE(%w/w)	TM-001 (HPLC - DAD)	Report	5.067	NA
	CBGA(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBL(%w/w)	TM-001 (HPLC - DAD)	Report	<LOQ	NA
	CBLA(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBT(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	Total Unknowns(%w/w)	TM-001 (HPLC - DAD)	Report	10.277	NA
	Total (Sum of all observed RCs known and unknown) (%w/w)	TM-001 (HPLC - DAD)	Report	33.343	NA
	Total Cannabinoids	(CBD plus total RCs)(%w/w)	TM-001 (HPLC - DAD)	Report	86.943
Residual Solvents	Methanol(ppm)	TM-005 (HS-GC - FID)	≤300 ppm	<LOQ	Pass
	Pentane(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Acetone(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Isopropyl Alcohol(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Hexanes, Total(ppm)	TM-005 (HS-GC - FID)	≤25 ppm	<LOQ	Pass
	Heptanes, Total(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Ethanol(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
Pesticides	Individual Pesticide Content (ppm) ¹	TM-011 (LC-MS)	Individual Pesticide Limit ¹	CONFORMS	Pass

Elemental Impurities	Arsenic(ppm)	LC-MS ²	<1.0 ppm	<LOQ	Pass
	Cadmium(ppm)	LC-MS ²	<0.4 ppm	<LOQ	Pass
	Lead(ppm)	LC-MS ²	<0.5 ppm	<LOQ	Pass
	Mercury(ppm)	LC-MS ²	<0.2 ppm	<LOQ	Pass
Mycotoxins	B1 (AFB1)(ppb)	USP<561> ²	≤2 ppb	<LOQ	Pass
	B2 (AFB2)(ppb)	USP<561> ²	≤0.5 ppb	<LOQ	Pass
	G1 (AFG1)(ppb)	USP<561> ²	≤0.5 ppb	<LOQ	Pass
	G2 (AFG2)(ppb)	USP<561> ²	≤0.5 ppb	<LOQ	Pass
	Total(ppb)	USP<561> ²	≤4 ppb	<LOQ	Pass

¹Number of replicates: 3

¹Full table of individual pesticides and associated limits on file.

²Contract Testing performed by Eurofins BioDiagnostics.