

Document Approvals
Approved Date: 4/14/2023

Approval Task Verdict: Approve	Melodie Nye, (M.Nye@milehighlabs.com) Environmental Health & Safety Approval 07-Apr-2023 17:28:34 GMT+0000
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Approval Task Verdict: Approve	Gary Korb, Quality Director (g.korb@milehighlabs.com) Quality Assurance Approval 14-Apr-2023 21:05:04 GMT+0000
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Approved

Certificate of Analysis

Final Product: Cannabidiol Isolate
Date of Manufacture: February 2022

Lot Number: L22021002



Test	Methodology	Specification	Test Results (Average)*	Pass/Fail
Color and Appearance	TM-004 (Visual)	White, crystalline powder free of particulates	Conforms	Pass
Cannabidiol 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 (% w/w)	(%w/w) TM-001 (HPLC - DAD)	>=98 %w/w	98.9	Pass
THC Content (% w/w)	THC(%w/w)	TM-001 (HPLC - DAD) ≤0.05 %w/w ¹	<LOQ	Pass
	THCA(%w/w)	TM-001 (HPLC - DAD) ≤ Limit of Quantification ¹	ND	Pass
	Total THC (THC + THCA*0.877)(%w/w)	TM-001 (HPLC - DAD) ≤0.05 %w/w ¹	ND	Pass
Related Cannabinoid Content (% w/w)	CBN(%w/w)	TM-001 (HPLC - DAD) ≤ Limit of Quantification ¹	ND	Pass
	cis-THC(%w/w)	TM-001 (HPLC - DAD) ≤ Limit of Quantification ¹	<LOQ	Pass
	d8-THC(%w/w)	TM-001 (HPLC - DAD) ≤ Limit of Quantification ¹	ND	Pass
	THCV(%w/w)	TM-001 (HPLC - DAD) ≤ Limit of Quantification ¹	ND	Pass
	THCVA(%w/w)	TM-001 (HPLC - DAD) ≤ Limit of Quantification ¹	ND	Pass
	CBC(%w/w)	TM-001 (HPLC - DAD) Report	ND	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	0.635	NA
	CBE(%w/w)	TM-001 (HPLC - DAD) Report	ND	NA
	CBGA(%w/w)	TM-001 (HPLC - DAD) Report	ND	NA
	CBG(%w/w)	TM-001 (HPLC - DAD) Report	ND	NA
	CBL(%w/w)	TM-001 (HPLC - DAD) Report	ND	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	0.270	NA
	Total (Sum of all observed RCs known and unknown) (%w/w)	TM-001 (HPLC - DAD) Report	0.905	NA
Total Cannabinoids (CBD plus total RCs, % w/w)	(%w/w) TM-001 (HPLC - DAD)	Report	99.842	NA
Residual Solvents	Pentane(ppm)	TM-005 (HS-GC - FID) ≤500 ppm	151	Pass
	Acetone(ppm)	TM-005 (HS-GC - FID) ≤500 ppm	<LOQ	Pass
	Isopropyl Alcohol(ppm)	TM-005 (HS-GC - FID) ≤500 ppm	<LOQ	Pass
	Ethanol(ppm)	TM-005 (HS-GC - FID) ≤500 ppm	<LOQ	Pass
	Methanol(ppm)	TM-005 (HS-GC - FID) ≤300 ppm	<LOQ	Pass
	Hexane(ppm)	TM-005 (HS-GC - FID) ≤25 ppm	<LOQ	Pass
Pesticides	Individual Pesticide Content (ppm) ²	TM-011 (LC-MS) Individual Pesticide Limit ²	CONFORMS	Pass

Specification: FP001 9.0
Lot: L22021002

2555 W. Midway Blvd Broomfield, CO 80020

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Elemental Impurities	Arsenic(ppm)	ICP-MS ³	<1.0 ppm	<LOQ	Pass
	Cadmium(ppm)	ICP-MS ³	<0.4 ppm	<LOQ	Pass
	Lead(ppm)	ICP-MS ³	<0.5 ppm	<LOQ	Pass
	Mercury (Total)(ppm)	ICP-MS ³	<0.2 ppm	<LOQ	Pass
Mycotoxins	B ₁ (AFB ₁)(ppb)	USP<561> ³	≤2 ppb	<0.500	Pass
	B ₂ (AFB ₂)(ppb)	USP<561> ³	≤0.5 ppb	<0.500	Pass
	G ₁ (AFG ₁)(ppb)	USP<561> ³	≤0.5 ppb	<0.500	Pass
	G ₂ (AFG ₂)(ppb)	USP<561> ³	≤0.5 ppb	<0.500	Pass
	Total(ppb)	USP<561> ³	≤4 ppb	<2.00	Pass

*Number of replicates: 22

¹TM-001 LOQ of 0.05% w/w for related cannabinoids.

²Full table of individual pesticides and associated limits on file.

³Contract Testing performed by Eurofins BioDiagnostics.

Data Reviewed and Approved by:

Tim Ghelli

3/11/2022 10:25:08 AM