

# Certificate of Analysis

Final Product: Cannabigerol Isolate

Lot Number: TF1-49



Date of Manufacture: 11/2019

Test	Methodology	Specification	Test Results (Average) <sup>1</sup>	Pass/Fail	
Color and Appearance	TM-004 (Visual)	White, crystalline powder free of particulates	Conforms	Pass	
CBG 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	
CBG Potency (% w/w)	TM-001 (HPLC-DAD)	≥ 98%	98.33	Pass	
THC Content (% w/w)	THC	TM-001 (HPLC-DAD)	≤ LOQ <sup>2</sup>	ND	Pass
	THCA	TM-001 (HPLC-DAD)	≤ LOQ <sup>2</sup>	ND	Pass
Related Cannabinoid Content (%w/w)	CBDA	TM-001 (HPLC-DAD)	Report	ND	NA
	CBN	TM-001 (HPLC-DAD)	Report	ND	NA
	CBDV	TM-001 (HPLC-DAD)	Report	0.11	NA
	CBD	TM-001 (HPLC-DAD)	Report	< LOQ	NA
	Other (Highest)	TM-001 (HPLC-DAD)	Report	0.29	NA
	Total	TM-001 (HPLC-DAD)	Report	0.57	NA
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-001 (HPLC-DAD)	Report	98.89	NA	
Residual Solvents (ppm)	Pentane	TM-005 (HS-GC-FID)	≤ 500 ppm	197	Pass
	Acetone	TM-005 (HS-GC-FID)	≤ 500 ppm	< LOQ	Pass
	Isopropyl Alcohol	TM-005 (HS-GC-FID)	≤ 500 ppm	< LOQ	Pass
	Hexane	TM-005 (HS-GC-FID)	≤ 25 ppm	ND	Pass

<sup>1</sup>Number of replicates: 3

<sup>2</sup>TM-001 LOQ of 0.05% w/w for related cannabinoids.

**Prepared By**

M. Möhrke

**Quality Approval**

M. Möhrke