

Certificate of Analysis

Final Product: Cannabigerol Isolate
Date of Manufacture: January 2020

Lot Number: IL20011-001



Test	Methodology		Specification	Test Results (Average)*	Pass/Fail
Visual	Color and Appearance	TM-004 (Visual)	White, crystalline powder free of particulates	Conforms	Pass
CBG Identification	ID by RT	TM-012 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
	ID by UV	TM-012 (DAD UV Spectrum)	UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
CBG Potency	CBG (Ptny)(%w/w)	TM-012 (HPLC-DAD)	>=98 %w/w	98.9	Pass
THC Content	THC(%w/w)	TM-012 (HPLC-DAD)	Report ¹	<LOQ	Pass
	THCA(%w/w)	TM-012 (HPLC-DAD)	Report ¹	<LOQ	Pass
Related Cannabinoid Content	CBDA(%w/w)	TM-012 (HPLC-DAD)	Report	<LOQ	NA
	CBN(%w/w)	TM-012 (HPLC-DAD)	Report	<LOQ	NA
	CBDV(%w/w)	TM-012 (HPLC-DAD)	Report	0.1123	NA
	CBD(%w/w)	TM-012 (HPLC-DAD)	Report	0.0794	NA
	Other (Highest RC)(%w/w)	TM-012 (HPLC-DAD)	Report	0.2886	NA
	Total (RC)(%w/w)	TM-012 (HPLC-DAD)	Report	0.4505	NA
Total Cannabinoids (CBD plus total RCs)	Total (CBG plus RC)(%w/w)	TM-012 (HPLC-DAD)	Report	99.3505	NA
Residual Solvents	Pentane(ppm)	TM-005 (HS-GC-FID)	≤500 ppm	216	Pass
	Acetone(ppm)	TM-005 (HS-GC-FID)	≤500 ppm	162	Pass
	IPA(ppm)	TM-005 (HS-GC-FID)	≤500 ppm	<LOQ	Pass
	Hexane(ppm)	TM-005 (HS-GC-FID)	≤25 ppm	<LOQ	Pass
Pesticides	Individual Pesticide Content (Highest) ²	LC-MS ³	Individual Pesticide Limit ²	CONFORMS	Pass
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(ppm)	ICP-MS ³	<0.2 ppm	<LOQ	Pass
Mycotoxins	B1 (AFB1)(ppb)	USP<561> ³	≤2 ppb	<LOQ	Pass
	B2 (AFB2)(ppb)	USP<561> ³	≤0.5 ppb	<LOQ	Pass
	G1 (AFG1)(ppb)	USP<561> ³	≤0.5 ppb	<LOQ	Pass
	G2 (AFG2)(ppb)	USP<561> ³	≤0.5 ppb	<LOQ	Pass
	Total(ppb)	USP<561> ³	≤4 ppb	<LOQ	Pass

*Number of replicates: 18

¹TM-012 LOQ of 0.05% w/w and LOD of 0.0075% w/w for related cannabinoids.

²Full list of individual pesticide residues on file, Eurofins LOQ of 0.1 ppm for individual residues.

³Contract Testing performed by Eurofins BioDiagnostics.

Data Reviewed and Approved by: