



PRODUCT NAME: Crystalline Cannabidiol

SHELF LIFE AND STORAGE: 24 Months when stored below 85°F protected from UV light.

QUALITATIVE ANALYSIS

ORGANOLEPTIC ANALYSIS

OBSERVATION	METHOD	SPECIFICATION
Foreign Matter	Visual	Absent
Color	Visual	White to Pale Yellow
Smell	Olfactory	Odorless to Slight Terpenoid
Product Feel	Tactile	Powdery, Fine
Taste	Manual Taste Analysis	Neutral

QUANTITATIVE ANALYSIS

CANNABINOID ANALYSIS**

OBSERVATION	METHOD	SPECIFICATION
Cannabidiolic Acid (CBDA)	UPLC-DAD (or equivalent)	As Reported
Cannabidiol (CBD)	UPLC-DAD (or equivalent)	99% Minimum
Cannabidivarin (CBDV)	UPLC-DAD (or equivalent)	As Reported
Tetrahydrocannabinolic Acid (THCA)	UPLC-DAD (or equivalent)	<LOQ
Δ-9-Tetrahydrocannabinol (Δ-9-THC)	UPLC-DAD (or equivalent)	</= 0.01%
Cannabinol (CBN)	UPLC-DAD (or equivalent)	</= 0.01%
Cannabichromene (CBC)	UPLC-DAD (or equivalent)	As Reported
Cannabigerol (CBG)	UPLC-DAD (or equivalent)	As Reported
Cannabigerolic Acid (CBGA)	UPLC-DAD (or equivalent)	As Reported
Δ-8-Tetrahydrocannabinol (Δ-8-THC)	UPLC-DAD (or equivalent)	As Reported
Tetrahydrocannabivarin (THCV)	UPLC-DAD (or equivalent)	</= 0.01%
Maximum THC	UPLC-DAD (or equivalent)	</= 0.01%

HEAVY METAL ANALYSIS**

OBSERVATION	METHOD	SPECIFICATION
Arsenic	ICP-MS	<200 ppb
Cadmium	ICP-MS	<200 ppb
Mercury	ICP-MS	<100 ppb
Lead	ICP-MS	<500 ppb



SPECIFICATION SHEET

MICROBIAL ANALYSIS**

OBSERVATION	METHOD	SPECIFICATION
Aerobic Plate Count	qPCR (or Equivalent)	≤1,000 CFU/g
Yeast Count	qPCR (or Equivalent)	≤1,000 CFU/g
Mold Count	qPCR (or Equivalent)	≤1,000 CFU/g
Enterobacteriaceae	qPCR (or Equivalent)	≤10 CFU/g
E. coli	qPCR (or Equivalent)	≤10 CFU/g

MULTI-RESIDUE LEVEL (MRL) ANALYSIS**

OBSERVATION	METHOD	SPECIFICATION
Multi-Residue Level (MRL) Analysis	LC-MS/MS GC-MS/MS	Meeting BCC Requirements

RESIDUAL SOLVENT ANALYSIS**

OBSERVATION	METHOD	SPECIFICATION
Hexanes	GC/MS HEADSPACE	<290 ppm
Acetone	GC/MS HEADSPACE	<5,000 ppm
Ethanol	GC/MS HEADSPACE	<5,000 ppm
Methanol	GC/MS HEADSPACE	<3,000 ppm
Isopropyl Alcohol	GC/MS HEADSPACE	<5,000 ppm
Heptane	GC/MS HEADSPACE	<5,000 ppm
Pentane	GC/MS HEADSPACE	<5,000 ppm

MOISTURE ANALYSIS**

OBSERVATION	METHOD	SPECIFICATION
Moisture Analysis	Karl Fischer Titration (or equivalent)	<1.5%

PARTICLE SIZE ANALYSIS**

OBSERVATION	METHOD	SPECIFICATION
Relative Particle Size	Sieve Analysis	>98% thru US#80

Solubility Analysis

Observation	Method SOP-1-QA-055	Specification
Solubility in MCT Oil		Soluble

** Denotes third party analysis. Source data available upon request.

N/D – Not Detectable

LOQ - Limit of Quantification

BCC - Bureau of Cannabis Control (California Regulations)

Maximum THC=THC+(THCA*0.877)