ANANDIALABS Certificate of Analysis

Client: Peace Naturals
Strain: CMP

Anandia Sample ID: 2018041001-001

Lot #: 0069E

Authorized By:

Leo Law, BSc
Laboratory Manager

CoA Prepared: 17-Apr-18

Potency		wt %	mg/mL
Total THC equivalents	(Δ9-THC + Δ9-THCA x 0.877)	2.53%	24.0
Total CBD equivalents	(CBD + CBDA x 0.877)	BLQ	BLQ

Most abundant minor cannabinoids

	wt %		wt %
CBN	0.16%	CBC	BLQ
CBG	BLQ	THCV	BLQ

Terpenes

Most abundant of the 39 terpenes quantified

	wt %		wt %
alpha-Bisabolol	0.033	alpha-Terpineol	0.003
trans-Caryophyllene	0.031	Linalool	0.003
alpha-Humulene	0.009	Borneol isomers	0.001
Caryophyllene oxide	0.004	Fenchone isomers	BLQ
trans-Nerolidol	0.004	Limonene	BLQ

Contaminant Analysis

Residual Solvents

Limits for residual solvents below ICH Q3C guidelines	pass

Microbial Quality

Total aerobic microbial counts	pass
Total yeast and mold counts	pass
Bile-tolerant gram-negative bacteria	pass
E coli	absent
Salmonella spp	absent

Aflatoxins	Aflatoxin B1, B2, G1, G2	pass
Heavy Metals	Cadmium, Lead, Mercury	pass
Pesticides		None detected

Details of Testing

Cannabinoid Profile

Quantification of 14 cannabinoids by ultra-high-performance liquid chromatography and mass spectrometry detection (UHPLC-MS). LOQ for flower and formulated oils is 0.064% (w/w) and for concentrates is 0.128% (w/w). [STM-401]

Terpene Profile

Quantification of 39 terpenes by gas chromatography and mass-spectrometry detection (GC-MS). [STM-406]

Residual Solvents

Quantification of 11 extraction solvents using headspace sampling, gas chromatography, and mass spectrometry detection (HS-GC-MS) compliant to ICH Q3C. [STM-410]

Microbial Quality

Microbiological screening using European Pharmacopoeia methods 2.6.12, 2.6.13, and 2.6.31. [STM-402]

Aflatoxins

Aflatoxins B1, B2, G1, and G2 quantification using immunoaffinity column chromatography followed by ultra-high-performance liquid chromatography with tandem mass-spectrometry (UHPLC-MS/MS) detection to meet criteria in European Pharmacopoeia method 2.8.18. [STM-405]

Heavy Metals

Microwave digestion and inductively-coupled plasma mass-spectrometry detection (ICP-MS) (USEPA 6020A R1 2007) to test for arsenic, cadmium, lead, and total mercury. ICP-MS analysis performed by ISO 17025 accredited 3rd party lab. [STM-404]

Pesticides

Screening of 51 pesticide residues and plant growth regulators specifically identified as prevalent contaminants to cannabis production. Analysis performed ultra-high-performance liquid chromatography with tandem mass-spectrometry detection (UHPLC-MS/MS). [STM-407]

Pesticides and Plant Growth Regulators tested for:

Abamectin	Diazinon	Imidacloprid	Pyrethrin I
Acephate	Dichlorvos	Kresoxim-methyl	Pyrethrin II
Acetamiprid	Dimethoate	Malathion	Pyridaben
Aldicarb	Ethoprophos	Metalaxyl	Spinosad A
Azoxystrobin	Etofenprox	Methiocarb	Spinosad D
Bifenazate	Etoxazole	Methomyl	Spiromesifen
Boscalid	Fenoxycarb	Myclobutanil	Spirotetramat
Carbaryl	Fenpyroximat	Oxamyl	Spiroxamine
Carbofuran	Fipronil	Paclobutrazol	Tebuconazole
Chlorantraniliprole	Flonicamid	Phosmet	Thiacloprid
Chlorpyrifos (ethyl)	Fludioxonil	Piperonyl butoxide	Thiamethoxam
Clofentezine	Hexythiazox	Propiconazole	Trifloxystrobin
Daminozide	Imazalil	Propoxur	