



Client: Aurora Cannabis Inc.
 Product: Cannatonic
 Lot #: V-19-144 #68

Certificate of Analysis

Anandia Sample ID: V1908_3004-006

Authorized By:

Said Zeinab
 Senior Manager, Quality Control

CoA Prepared: 10-Sep-19

Potency		wt %	mg/g
Total THC equivalents	($\Delta 9$ -THC + $\Delta 9$ -THCA x 0.877)	0.44%	4.4
Total CBD equivalents	(CBD + CBDA x 0.877)	11.24%	112.4

Most abundant minor cannabinoids

	wt %
CBCA	0.61%
CBGA	0.16%

Terpenes

Most abundant of the 39 terpenes quantified

	wt %		wt %
beta-Myrcene	0.308	Limonene	0.043
alpha-Bisabolol	0.091	Linalool	0.035
Guaiol	0.071	beta-Pinene	0.027
trans-Caryophyllene	0.061	alpha-Humulene	0.026
alpha-Pinene	0.060	Borneol isomers	0.019

Loss on Drying 9.6%

Contaminant Analysis

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 Arsenic, 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]

Loss On Drying

Percent loss on drying using modified United States Pharmacopoeia method <731> under vacuum at 40 degrees C. [STM-409]

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) (EP 9.2, EP 1433E, USP232, and USP233) to test for arsenic, cadmium, lead, and total mercury. ICP-MS analysis performed using in-house developed and validated methodology specific for Cannabis products. [STM-6002]

Pesticides

Screening of 96 pesticide residues and plant growth regulators. Analysis performed ultra-high-performance liquid chromatography and gas chromatography with tandem mass-spectrometry detection (UHPLC-MS/MS and GC-MS/MS). [STM-429 and 430]

Pesticides and Plant Growth Regulators tested for:

Abamectin	Daminozide	Hexythiazox	Prallethrin
Acephate	Deltamethrin	Imazalil	Propiconazole
Acequinocyl	Diazinon	Imidacloprid	Propoxur
Acetamiprid	Dichlorvos	Iprodione	Pyraclostrobin
Aldicarb	Dimethoate	Kinoprene	Pyrethrins
Allethrin	Dimethomorph	Kresoxim-methyl	Pyridaben
Azadirachtin	Dinotefuran	Malathion	Quintozene
Azoxystrobin	Dodemorph	Metalaxyl	Resmethrin
Benzovindiflupyr	Endosulfan-alpha	Methiocarb	Spinetoram
Bifenazate	Endosulfan-beta	Methomyl	Spinosad
Bifenthrin	Endosulfan sulfate	Methoprene	Spirodiclofen
Boscalid	Ethoprophos	Methyl parathion	Spiromesifen
Buprofezin	Etofenprox	Mevinphos	Spirotetramat
Carbaryl	Etoxazole	MGK-264	Spiroxamine
Carbofuran	Etridiazol	Myclobutanil	Tebuconazole
Chlorantraniliprole	Fenoxycarb	Naled	Tebuconazole
Chlorphenapyr	Fenpyroximate	Novaluron	Teflubenzuron
Chlorpyrifos	Fensulfothion	Oxamyl	Tetrachlorvinphos
Clofentezine	Fenthion	Paclbutrazol	Tetramethrin
Clothianidin	Fenvalerate	Permethrin	Thiacloprid
Coumaphos	Fipronil	Phenothrin	Thiamethoxam
Cyantraniliprole	Flonicamid	Phosmet	Thiophanate-methyl
Cyfluthrin	Fludioxonil	Piperonyl butoxide	Trifloxystrobin
Cypermethrin	Fluopyram	Pirimicarb	
Cyprodinil			

