

CERTIFICATE OF ANALYSIS

Prepared for:
PANACEA LIFE SCIENCES

16194 W 45th Drive
Golden, CO USA 80403

Tanasi 50 mg CBD/CBDA softgels

Batch ID or Lot Number: SG11G2203	Test: Potency	Reported: 26Aug2022	USDA License: N/A
Matrix: Unit	Test ID: T000219021	Started: 25Aug2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 22Aug2022	Status: Active

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.054	0.159	<LOQ	0.19	# of Servings = 1 Sample Weight=0.609g
Cannabichromenic Acid (CBCA)	0.049	0.146	ND	ND	
Cannabidiol (CBD)	0.115	0.398	26.759	43.91	
Cannabidiolic Acid (CBDA)	0.118	0.408	25.325	41.55	
Cannabidivarin (CBDV)	0.027	0.094	<LOQ	0.09	
Cannabidivarinic Acid (CBDVA)	0.049	0.170	0.224	0.37	
Cannabigerol (CBG)	0.030	0.090	<LOQ	0.14	
Cannabigerolic Acid (CBGA)	0.127	0.378	<LOQ	0.49	
Cannabinol (CBN)	0.040	0.118	ND	ND	
Cannabinolic Acid (CBNA)	0.087	0.258	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.152	0.450	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.138	0.409	0.180	0.30	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.122	0.362	ND	ND	
Tetrahydrocannabivarin (THCV)	0.028	0.082	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.108	0.320	ND	ND	
Total Cannabinoids			53.039	87.03	
Total Potential THC			0.180	0.30	
Total Potential CBD			48.969	80.35	

Final Approval



Jacob Miller
26Aug2022
03:08:00 PM MDT

PREPARED BY / DATE



Karen Winternheimer
26Aug2022
03:10:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/736c5241-60f6-4338-beeb-fa3dd3a1468e>

Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).
Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDA *(0.877)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02

CDPHE Certified
736c524160f64338beebfa3dd3a1468e.1

Prepared for:


Tanasi 50 mg CBD/CBDA softgels


PANACEA LIFE SCIENCES

Batch ID or Lot Number: SG11G2203	Test: Microbial Contaminants	Reported: 8/29/22	Location: 16194 W 45th Drive Golden, CO 80403
Matrix: Finished Product	Test ID: T000219394	Started: 8/25/22	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 08/24/2022 @ 03:38 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	QUANTITATION RANGE	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	2.0x10 ³ - 3.0x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	2.0x10 ² - 3.0x10 ⁴ CFU/g	None Detected	
STEC	TM-25, PCR	10 ⁰ CFU/25 g	N/A	Absent	
Salmonella	TM-25, PCR	10 ⁰ CFU/25 g	N/A	Absent	

 Jacob Folkerts
8/29/2022
10:39:00 AM

 Sarah Henning
8/29/2022
3:03:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:
10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

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CDPHE Certified



Certificate #4329.02

Prepared for:
PANACEA LIFE SCIENCES

16194 W 45th Drive
Golden, CO USA 80403

Greenway-Tanasi CBD/CBDA Isolate

Batch ID or Lot Number: (RE1)(RE53)EF2P	Test: Pesticides	Reported: 01Jul2022	USDA License: NA
Matrix: Concentrate	Test ID: T000211955	Started: 30Jun2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 27Jun2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	306 - 2780	ND	Malathion	293 - 2714	ND
Acephate	41 - 2758	ND	Metalaxyl	49 - 2730	ND
Acetamiprid	43 - 2772	ND	Methiocarb	45 - 2812	ND
Azoxystrobin	47 - 2763	ND	Methomyl	42 - 2766	ND
Bifenazate	44 - 2736	ND	MGK 264 1	109 - 1647	ND
Boscalid	67 - 2718	ND	MGK 264 2	121 - 1152	ND
Carbaryl	38 - 2723	ND	Myclobutanil	48 - 2785	ND
Carbofuran	42 - 2701	ND	Naled	43 - 2785	ND
Chlorantraniliprole	54 - 2793	ND	Oxamyl	42 - 2761	ND
Chlorpyrifos	37 - 2809	ND	Pacllobutrazol	43 - 2735	ND
Clofentezine	280 - 2747	ND	Permethrin	298 - 2789	ND
Diazinon	283 - 2744	ND	Phosmet	40 - 2703	ND
Dichlorvos	280 - 2791	ND	Prophos	287 - 2772	ND
Dimethoate	45 - 2764	ND	Propoxur	42 - 2706	ND
E-Fenpyroximate	290 - 2692	ND	Pyridaben	299 - 2798	ND
Etofenprox	41 - 2790	ND	Spinosad A	36 - 2226	ND
Etoxazole	297 - 2747	ND	Spinosad D	48 - 496	ND
Fenoxycarb	36 - 2767	ND	Spiromesifen	235 - 2780	ND
Fipronil	22 - 2702	ND	Spirotetramat	293 - 2658	ND
Flonicamid	48 - 2771	ND	Spiroxamine 1	19 - 1200	ND
Fludioxonil	332 - 2811	ND	Spiroxamine 2	25 - 1585	ND
Hexythiazox	46 - 2810	ND	Tebuconazole	284 - 2785	ND
Imazalil	292 - 2777	ND	Thiacloprid	43 - 2757	ND
Imidacloprid	44 - 2773	ND	Thiamethoxam	42 - 2794	ND
Kresoxim-methyl	52 - 2813	ND	Trifloxystrobin	43 - 2746	ND

Final Approval



Daniel Weidensaul
01Jul2022
12:16:00 PM MDT

PREPARED BY / DATE



Sam Smith
01Jul2022
12:23:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e458575e-8ebe-46dc-b126-74ea66e23458>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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CERTIFICATE OF ANALYSIS

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16194 W 45th Drive
Golden, CO USA 80403

Greenway-Tanasi CBD/CBDA Isolate

Batch ID or Lot Number: (RE1)(RE53)EF2P	Test: Heavy Metals	Reported: 29Jun2022	USDA License: NA
Matrix: Concentrate Co	Test ID: T000211957	Started: 29Jun2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 27Jun2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.08 - 7.89	ND	
Cadmium	0.08 - 7.91	ND	
Mercury	0.08 - 7.85	ND	
Lead	0.08 - 8.13	ND	

Final Approval



Kayla Phye
29Jun2022
04:18:00 PM MDT

PREPARED BY / DATE



Sam Smith
29Jun2022
04:19:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b660593e-4a9c-43db-a148-94de6865f805>

Definitions

ND = None Detected (defined by dynamic range of the method)
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Cert #4329.02

CDPHE Certified
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CERTIFICATE OF ANALYSIS

Prepared for:
PANACEA LIFE SCIENCES

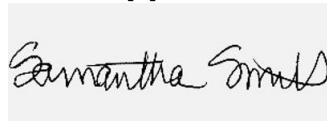
16194 W 45th Drive
Golden, CO USA 80403

Greenway-Tanasi CBD/CBDA Isolate

Batch ID or Lot Number: (RE1)(RE53)EF2P	Test: Residual Solvents	Reported: 29Jun2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000211958	Started: 29Jun2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 27Jun2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	75 - 1497	ND	
Butanes (Isobutane, n-Butane)	162 - 3231	ND	
Methanol	62 - 1230	ND	
Pentane	92 - 1836	ND	
Ethanol	94 - 1875	142	
Acetone	101 - 2022	ND	
Isopropyl Alcohol	108 - 2157	ND	
Hexane	6 - 127	ND	
Ethyl Acetate	105 - 2090	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	107 - 2132	ND	
Toluene	19 - 379	ND	
Xylenes (m,p,o-Xylenes)	141 - 2818	ND	

Final Approval



Sam Smith
30Jun2022
07:11:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul
30Jun2022
07:30:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/67085eeb-c86e-42b4-971f-87713032a45c>

Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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CDPHE Certified

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 Golden, CO USA 80403

Greenway-Tanasi CBD/CBDA Isolate

Batch ID or Lot Number: (RE1)(RE53)EF2P	Test: Mycotoxins	Reported: 30Jun2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000211959	Started: 29Jun2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 27Jun2022	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.66 - 135.08	ND	N/A
Aflatoxin B1	1.04 - 33.67	ND	
Aflatoxin B2	1.37 - 33.41	ND	
Aflatoxin G1	1.14 - 33.31	ND	
Aflatoxin G2	1.50 - 33.70	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


 Sam Smith
 30Jun2022
 03:25:00 PM MDT

PREPARED BY / DATE



 Jacob Miller
 30Jun2022
 03:29:00 PM MDT

APPROVED BY / DATE


<https://results.botanacor.com/api/v1/coas/uuid/495acab4-5e61-4010-8741-674e6a4c8ff5>
Definitions

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 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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