



PURE ANALYTICS™
CANNABIS POTENCY & SAFETY SCREENING

Test Report

Customer	PAN2024
Sample ID's	PAN2024-1 -> 2
Report Date	30-Nov-18

Certificate of Analysis- Pure Analytics InfoTest™

Customer Name: PAN2024
Sample Name: 600mg Relieve CBD
Lab Sample I.D.: PAN2024-1
Sample Type: Tincture
Date Received: 11/20/2018
Date Tested: 11/23/18-11/29/18
Date Reported: 11/30/2018

QC Batch(es): PA14566-569, 571

Tests Performed: Cannabinoids, Micro (S,E,A), Pesticides, RSA, Filth & Foreign Material

Results Summary:		Microbiology Analysis:	
Item	Report Status	Analysis	PASS/FAIL
Cannabinoids	NA	E. coli	PASS
Pesticides	PASS	Salmonella	PASS
Residual Solvent	PASS	Aspergillus	NT
Moisture	NT	nigers NT terreus NT	
Microbiological Contamination	PASS	flavus NT fumigatus NT	
Filth & Foreign Material	PASS	Aerobic Plate Count	NT
		Total Yeast and Mold	NT
		Coliform/ E.coli	NT
		Pseudomonas	NT
		Moisture %	NT

Methods: Aspergillus, Standard Methods; Total Coliform/E.coli- AOAC 991.14; Aspergillus Salmonella- OMA 2014.01;

Cannabinoid Analysis:

THC	THCA	d-8 THC	CBD	CBDA	CBN	CBC	CBGA	CBG	CBGA	CBL	THCV	THCVA	CBDV	CBDVA	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
0.10%	ND	ND	2.20%	0.01%	0.01%	0.12%	ND	0.03%	ND	ND	ND	ND	0.02%	ND	NA	2.50%
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
1.05	ND	ND	22.0	0.12	0.15	1.16	ND	0.33	ND	ND	ND	ND	0.21	ND	NA	25.0
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
0.98	ND	ND	20.7	0.11	0.14	1.09	ND	0.31	ND	ND	ND	ND	0.20	ND	NA	23.5

Flowers Reported on % DRY WT. Basis; *Total THC=(THCA * 0.877) + THC + d-8 THC
 Method: Extraction by Methanol, IPA, Acetonitrile or Ethanol with sonication and HPLC-DAD confirmation analysis as needed by GC-FID analysis

Residual Solvent:

Method: Full Evaporation Technique by GC-MS-FID/ECD.

CA CATEGORY 1							CA CATEGORY 2								
Compound	(ug/g)	Inhal. Action Lim. (ug/g)	Other Action Lim. (ug/g)	PASS/FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES:	Compound	(ug/g)	Inhal. Action Lim. (ug/g)	Other Action Lim. (ug/g)	PASS/FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES:
1,2-Dichloroethane	ND	> LOD	> LOD	PASS	1.00	0.05		n-butane	ND	5000	5000	PASS	2.0	0.50	
Benzene	ND	> LOD	> LOD	PASS	1.00	0.05		n-pentane	ND	5000	5000	PASS	2.0	0.50	
Chloroform	ND	> LOD	> LOD	PASS	1.00	0.05		acetone	0.3	3100	5000	PASS	2.0	0.50	
Ethylene Oxide	ND	> LOD	> LOD	PASS	1.00	0.05		ethanol	143.9	5000	5000	PASS	2.0	0.50	
Methylene chloride	ND	> LOD	> LOD	PASS	1.00	0.05		n-hexane	ND	70	290	PASS	2.0	0.50	
Trichloroethylene	ND	> LOD	> LOD	PASS	1.00	0.05		methanol	52.9	400	3000	PASS	2.0	0.50	
								2-propanol	ND	320	5000	PASS	2.0	0.50	
								acetonitrile	ND	6	410	PASS	5.0	1.00	
								ethyl acetate	ND	5000	5000	PASS	2.0	0.50	
								n-heptane	ND	5000	5000	PASS	2.0	0.50	
								ether	ND	5000	5000	PASS	2.0	0.50	
								toluene	ND	30	890	PASS	2.0	0.50	
								Total xylenes	ND	10	2170	PASS	2.0	0.50	
								propane	ND	5000	5000	PASS	2.0	0.50	
								Total Cat. 1 & 2	197.2						

Label Claim Verification:

mg THC mg CBD

Package Claim Verification Results
 % Difference: NA NA
 PASS/FAIL

Filth and Foreign Material:

Inspection Results
 Observations

Testing performed by:

Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403
 CA Temp. License #: C8-17-0000003-TEMP

The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.

ND: Not Detected

Approved by: *Samantha J. Miller*

Certificate of Analysis- Pure Analytics InfoTest™

Customer Name: PAN2024

Sample Name: 600mg Relieve CBD

Lab Sample I.D.: PAN2024-1

Pesticides Analysis:
Method: Acetone extraction with sonication, dSPE clean-up, LCMSMS and GC-ECD analysis

Compound	Result (ug/g)	Action lim. (ug/g)	PASS/ FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES
CA CATEGORY I						
Aldicarb	ND	> LOD	PASS	0.020	0.005	
Carbofuran	ND	> LOD	PASS	0.010	0.001	
Chlordane	ND	> LOD	PASS	0.010	0.005	
Chlorfenapyr	ND	> LOD	PASS	0.100	0.020	
Chlorpyrifos	ND	> LOD	PASS	0.100	0.020	
Coumaphos	ND	> LOD	PASS	0.100	0.005	
Daminozide	ND	> LOD	PASS	0.100	0.010	
Dichlorvos	ND	> LOD	PASS	0.010	0.001	
Dimethoate	ND	> LOD	PASS	0.100	0.020	
Ethoprop	ND	> LOD	PASS	0.100	0.020	
Etofenprox	ND	> LOD	PASS	0.010	0.001	
Fenoxycarb	ND	> LOD	PASS	0.020	0.005	
Fipronil	ND	> LOD	PASS	0.020	0.005	
Imazilil	ND	> LOD	PASS	0.100	0.005	
Methiocarb	ND	> LOD	PASS	0.100	0.005	
Parathion-methyl	ND	> LOD	PASS	0.100	0.010	
Mevinphos	ND	> LOD	PASS	0.100	0.050	
Paclobutrazole	ND	> LOD	PASS	0.100	0.005	
Propoxur	ND	> LOD	PASS	0.010	0.001	
Spiroxamine	ND	> LOD	PASS	0.010	0.001	
Thiacloprid	ND	> LOD	PASS	0.020	0.005	

Compound	Result (ug/g)	Action lim. (ug/g)		PASS/ FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES
		(Inhale)	(Other)				
CA CATEGORY II							
Abamectin	ND	0.1	0.3	PASS	0.10	0.001	
Acephate	ND	0.1	5	PASS	0.10	0.02	
Acequinocyl	ND	0.1	4	PASS	0.02	0.02	
Acetamiprid	ND	0.1	5	PASS	0.02	0.02	
Azoxystrobin	ND	0.1	40	PASS	0.02	0.01	
Bifenazate	ND	0.1	5	PASS	0.02	0.001	
Bifenthrin	ND	3	0.5	PASS	0.10	0.005	
Boscalid	ND	0.1	10	PASS	0.02	0.01	
Captan	ND	0.7	5	PASS	0.01	0.005	
Cyfluthrin	ND	2	1	PASS	0.10	0.001	
Cypermethrin	ND	1	1	PASS	0.10	0.05	
Carbaryl	ND	0.5	0.5	PASS	0.02	0.001	
Chlorantraniliprole	ND	10	40	PASS	0.02	0.01	
Clofentezine	ND	0.1	0.5	PASS	0.02	0.001	
Diazinon	ND	0.1	0.2	PASS	0.02	0.001	
Dimethomorph	ND	2	20	PASS	0.02	0.001	
Etoazole	ND	0.1	2	PASS	0.02	0.005	
Fenhexamid	ND	0.1	10	PASS	0.01	0.001	
Fenpyroximate	ND	0.1	2	PASS	0.02	0.01	
Fonicamid	ND	0.1	2	PASS	0.02	0.001	
Fludoxonil	ND	0.1	30	PASS	0.10	0.02	
Hexythiazox	ND	0.1	2	PASS	0.02	0.01	
Imidacloprid	ND	5	3	PASS	0.10	0.02	
Kresoxim-methyl	ND	0.1	1	PASS	0.02	0.02	
Malathion	ND	0.5	5	PASS	0.20	0.001	
Metalaxyl	ND	2	15	PASS	0.02	0.01	
Methomyl	ND	1	0.1	PASS	0.02	0.001	
Myclobutanil	ND	0.1	9	PASS	0.005	0.001	
Naled	ND	0.1	0.5	PASS	0.10	0.02	
Oxamyl	ND	0.5	0.2	PASS	0.05	0.01	
Pentachloronitrobenz.	ND	0.1	0.2	PASS	0.10	0.02	
Permethrin	ND	0.5	20	PASS	0.025	0.005	
Phosmet	ND	0.1	0.2	PASS	0.02	0.02	
Piperonyl butoxide	ND	3	8.0	PASS	0.005	0.001	
Prallethrin	ND	0.1	0.4	PASS	0.02	0.01	
Propiconazole	ND	0.1	20.0	PASS	0.02	0.01	
Pyrethrins	ND	0.5	1	PASS	0.07	0.01	
Pyridaben	ND	0.1	3	PASS	0.02	0.001	
Spinetoram	ND	0.1	3	PASS	0.07	0.005	
Spinosad	ND	0.1	3	PASS	0.10	0.02	
Spiromesifen	ND	0.1	12	PASS	0.10	0.02	
Spirotetramat	ND	0.1	13	PASS	0.10	0.02	
Tebuconazole	ND	0.1	2	PASS	0.10	0.02	
Trifloxystrobin	ND	0.1	30	PASS	0.01	0.005	
Thiamethoxam	ND	5	5	PASS	0.10	0.01	

Terpene Analysis:
Method: Methanol Extraction with Sonication and GC-FID Analysis

Compound	% wt.	Compound	% wt.
α-Pinene	NA	Eicosane	NA
Camphene	NA	Camphor	NA
β-Pinene	NA	L-Fenchone	NA
β-Myrcene	NA	Sabinene	NA
3-Carene	NA	β-Caryoph. Ox.	NA
R-Limonene	NA	Phytol	NA
Eucalyptol	NA	a-Phellandrene	NA
Ocimene	NA	Total %	NA
γ-Terpinene	NA		
Terpinolene	NA		
Linalool	NA		
Fenchol	NA		
(+)-Pulegone	NA		
Menthol	NA		
Borneol	NA		
α-Terpineol	NA		
Geraniol	NA		
β-Caryophyllene	NA		
α-Humulene	NA		
Valencene	NA		
Farnesene	NA		
trans-Nerolidol	NA		
cis-Nerolidol	NA		
Guaiol	NA		
α-Bisabolol	NA		

Testing performed by:

 Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403
 CA Temp. License #: C8-17-0000003-TEMP

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ND: Not Detected

 Approved by: *Samantha J. Miller*

Certificate of Analysis- Pure Analytics InfoTest™

Customer Name: PAN2024
Sample Name: 300mg Balance CBD
Lab Sample I.D.: PAN2024-2
Sample Type: Tincture
Date Received: 11/20/2018
Date Tested: 11/23/18-11/29/18
Date Reported: 11/30/2018

QC Batch(es): PA14566-569, 571
Tests Performed: Cannabinoids, Micro (S,E,A), Pesticides, RSA, Filth & Foreign Material

Results Summary:		Microbiology Analysis:	
Item	Report Status	Analysis	PASS/FAIL
Cannabinoids	NA	E. coli	PASS
Pesticides	PASS	Salmonella	PASS
Residual Solvent	PASS	Aspergillus	NT
Moisture	NT	nigers NT terreus NT	
Microbiological Contamination	PASS	flavus NT fumigatus NT	
Filth & Foreign Material	PASS	Aerobic Plate Count	NT
		Total Yeast and Mold	NT
		Coliform/ E.coli	NT
		Pseudomonas	NT
		Moisture %	NT

Methods: Aspergillus, Standard Methods; Total Coliform/E.coli- AOAC 991.14; Aspergillus Salmonella- OMA 2014.01;

Cannabinoid Analysis:

THC	THCA	d-8 THC	CBD	CBDA	CBN	CBC	CBGA	CBG	CBGA	CBL	THCV	THCVA	CBDV	CBDVA	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
0.03%	ND	ND	1.00%	ND	ND	0.06%	ND	0.01%	ND	ND	ND	ND	ND	ND	NA	1.10%
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
0.33	ND	ND	10.0	ND	ND	0.64	ND	0.11	ND	ND	ND	ND	ND	ND	NA	11.0
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
0.31	ND	ND	9.33	ND	ND	0.60	ND	0.10	ND	ND	ND	ND	ND	ND	NA	10.3

Flowers Reported on % DRY WT. Basis; *Total THC=(THCA * 0.877) + THC + d-8 THC
 Method: Extraction by Methanol, IPA, Acetonitrile or Ethanol with sonication and HPLC-DAD confirmation analysis as needed by GC-FID analysis

Residual Solvent:

Method: Full Evaporation Technique by GC-MS-FID/ECD.

CA CATEGORY 1							CA CATEGORY 2								
Compound	(ug/g)	Inhal. Action Lim. (ug/g)	Other Action Lim. (ug/g)	PASS/ FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES:	Compound	(ug/g)	Inhal. Action Lim. (ug/g)	Other Action Lim. (ug/g)	PASS/ FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES:
1,2-Dichloroethane	ND	> LOD	> LOD	PASS	1.00	0.05		n-butane	ND	5000	5000	PASS	2.0	0.50	
Benzene	ND	> LOD	> LOD	PASS	1.00	0.05		n-pentane	ND	5000	5000	PASS	2.0	0.50	
Chloroform	ND	> LOD	> LOD	PASS	1.00	0.05		acetone	ND	3100	5000	PASS	2.0	0.50	
Ethylene Oxide	ND	> LOD	> LOD	PASS	1.00	0.05		ethanol	85.9	5000	5000	PASS	2.0	0.50	
Methylene chloride	ND	> LOD	> LOD	PASS	1.00	0.05		n-hexane	ND	70	290	PASS	2.0	0.50	
Trichloroethylene	ND	> LOD	> LOD	PASS	1.00	0.05		methanol	116.7	400	3000	PASS	2.0	0.50	
								2-propanol	ND	320	5000	PASS	2.0	0.50	
								acetonitrile	ND	6	410	PASS	5.0	1.00	
								ethyl acetate	ND	5000	5000	PASS	2.0	0.50	
								n-heptane	ND	5000	5000	PASS	2.0	0.50	
								ether	ND	5000	5000	PASS	2.0	0.50	
								toluene	ND	30	890	PASS	2.0	0.50	
								Total xylenes	ND	10	2170	PASS	2.0	0.50	
								propane	ND	5000	5000	PASS	2.0	0.50	
								Total Cat. 1 & 2	202.7						

Label Claim Verification:

mg THC mg CBD

Package Claim Verification Results
% Difference NA NA
PASS/FAIL

Filth and Foreign Material:

Inspection Results
Observations

Testing performed by:

Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403
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ND: Not Detected

Approved by: *Samantha J. Miller*

Certificate of Analysis- Pure Analytics InfoTest™

Customer Name: PAN2024

Sample Name: 300mg Balance CBD

Lab Sample I.D.: PAN2024-2

Pesticides Analysis:

Method: Acetone extraction with sonication, dSPE clean-up, LCMSMS and GC-ECD analysis

Compound	Result (ug/g)	Action lim. (ug/g)	PASS/ FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES
CA CATEGORY I						
Aldicarb	ND	> LOD	PASS	0.020	0.005	
Carbofuran	ND	> LOD	PASS	0.010	0.001	
Chlordane	ND	> LOD	PASS	0.010	0.005	
Chlorfenapyr	ND	> LOD	PASS	0.100	0.020	
Chlorpyrifos	ND	> LOD	PASS	0.100	0.020	
Coumaphos	ND	> LOD	PASS	0.100	0.005	
Daminozide	ND	> LOD	PASS	0.100	0.010	
Dichlorvos	ND	> LOD	PASS	0.010	0.001	
Dimethoate	ND	> LOD	PASS	0.100	0.020	
Ethoprop	ND	> LOD	PASS	0.100	0.020	
Etofenprox	ND	> LOD	PASS	0.010	0.001	
Fenoxycarb	ND	> LOD	PASS	0.020	0.005	
Fipronil	ND	> LOD	PASS	0.020	0.005	
Imazilil	ND	> LOD	PASS	0.100	0.005	
Methiocarb	ND	> LOD	PASS	0.100	0.005	
Parathion-methyl	ND	> LOD	PASS	0.100	0.010	
Mevinphos	ND	> LOD	PASS	0.100	0.050	
Paclobutrazole	ND	> LOD	PASS	0.100	0.005	
Propoxur	ND	> LOD	PASS	0.010	0.001	
Spiroxamine	ND	> LOD	PASS	0.010	0.001	
Thiacloprid	ND	> LOD	PASS	0.020	0.005	

Compound	Result (ug/g)	Action lim. (ug/g)		PASS/ FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES
		(Inhale)	(Other)				
CA CATEGORY II							
Abamectin	ND	0.1	0.3	PASS	0.10	0.001	
Acephate	ND	0.1	5	PASS	0.10	0.02	
Acequinocyl	ND	0.1	4	PASS	0.02	0.02	
Acetamiprid	ND	0.1	5	PASS	0.02	0.02	
Azoxystrobin	ND	0.1	40	PASS	0.02	0.01	
Bifenazate	ND	0.1	5	PASS	0.02	0.001	
Bifenthrin	ND	3	0.5	PASS	0.10	0.005	
Boscalid	ND	0.1	10	PASS	0.02	0.01	
Captan	ND	0.7	5	PASS	0.01	0.005	
Cyfluthrin	ND	2	1	PASS	0.10	0.001	
Cypermethrin	ND	1	1	PASS	0.10	0.05	
Carbaryl	ND	0.5	0.5	PASS	0.02	0.001	
Chlorantraniliprole	ND	10	40	PASS	0.02	0.01	
Clofentezine	ND	0.1	0.5	PASS	0.02	0.001	
Diazinon	ND	0.1	0.2	PASS	0.02	0.001	
Dimethomorph	ND	2	20	PASS	0.02	0.001	
Etoxazole	ND	0.1	2	PASS	0.02	0.005	
Fenhexamid	ND	0.1	10	PASS	0.01	0.001	
Fenpyroximate	ND	0.1	2	PASS	0.02	0.01	
Fonicamid	ND	0.1	2	PASS	0.02	0.001	
Fludoxonil	ND	0.1	30	PASS	0.10	0.02	
Hexythiazox	ND	0.1	2	PASS	0.02	0.01	
Imidacloprid	ND	5	3	PASS	0.10	0.02	
Kresoxim-methyl	ND	0.1	1	PASS	0.02	0.02	
Malathion	ND	0.5	5	PASS	0.20	0.001	
Metalaxyl	ND	2	15	PASS	0.02	0.01	
Methomyl	ND	1	0.1	PASS	0.02	0.001	
Myclobutanil	ND	0.1	9	PASS	0.005	0.001	
Naled	ND	0.1	0.5	PASS	0.10	0.02	
Oxamyl	ND	0.5	0.2	PASS	0.05	0.01	
Pentachloronitrobenz.	ND	0.1	0.2	PASS	0.10	0.02	
Permethrin	ND	0.5	20	PASS	0.025	0.005	
Phosmet	ND	0.1	0.2	PASS	0.02	0.02	
Piperonyl butoxide	ND	3	8.0	PASS	0.005	0.001	
Prallethrin	ND	0.1	0.4	PASS	0.02	0.01	
Propiconazole	ND	0.1	20.0	PASS	0.02	0.01	
Pyrethrins	ND	0.5	1	PASS	0.07	0.01	
Pyridaben	ND	0.1	3	PASS	0.02	0.001	
Spinetoram	ND	0.1	3	PASS	0.07	0.005	
Spinosad	ND	0.1	3	PASS	0.10	0.02	
Spiromesifen	ND	0.1	12	PASS	0.10	0.02	
Spirotetramat	ND	0.1	13	PASS	0.10	0.02	
Tebuconazole	ND	0.1	2	PASS	0.10	0.02	
Trifloxystrobin	ND	0.1	30	PASS	0.01	0.005	
Thiamethoxam	ND	5	5	PASS	0.10	0.01	

Terpene Analysis:

Method: Methanol Extraction with Sonication and GC-FID Analysis

Compound	% wt.	Compound	% wt.
α-Pinene	NA	Eicosane	NA
Camphene	NA	Camphor	NA
β-Pinene	NA	L-Fenchone	NA
β-Myrcene	NA	Sabinene	NA
3-Carene	NA	β-Caryoph. Ox.	NA
R-Limonene	NA	Phytol	NA
Eucalyptol	NA	a-Phellandrene	NA
Ocimene	NA	Total %	NA
γ-Terpinene	NA		
Terpinolene	NA		
Linalool	NA		
Fenchol	NA		
(+)-Pulegone	NA		
Menthol	NA		
Borneol	NA		
α-Terpineol	NA		
Geraniol	NA		
β-Caryophyllene	NA		
α-Humulene	NA		
Valencene	NA		
Farnesene	NA		
trans-Nerolidol	NA		
cis-Nerolidol	NA		
Guaiol	NA		
α-Bisabolol	NA		

Testing performed by:

Pure Analytics
5468 Skylane Blvd Ste 102
Santa Rosa, CA 95403
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ND: Not Detected

Approved by: *Samantha J. Miller*