

## Certificate of Analysis- Pure Analytics InfoTest™

**Customer Name:** Market and Mission  
**Sample Name:** 1200 mg CBD Tincture  
**Lab Sample I.D.:** MKT0009-1  
**Sample Type:** Tincture  
**Date Received:** 6/7/2019  
**Date Tested:** 6/7/2019-6/13/2019  
**Date Reported:** 6/14/2019  
**QC Batch(es):** PA15475,509-512,516  
**Tests Performed:** Cannabinoids, Micro (S,E,A), Pesticides, RSA, Heavy Metals

Results Summary:		Microbiology Analysis:	
Item	Report Status	Analysis	PASS/FAIL
Overall Sample	NA	E. coli	PASS
Cannabinoids	NA	Salmonella	PASS
Pesticides	PASS	Aspergillus	NT
Residual Solvent	PASS	nigers	NT
Moisture	NT	terreus	NT
Microbiological Contamination	PASS	flavus	NT
Filth & Foreign	NT	fumigatus	NT
Mycotoxins	NT	Water Activity	NT
Heavy Metals	PASS	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	CBCA	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.
ND	ND	ND	4.96%	ND	ND	0.27%	ND	0.07%	ND	ND	ND	ND	ND	ND	NA	5.30%
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
ND	ND	ND	49.6	ND	ND	2.66	ND	0.71	ND	ND	ND	ND	ND	ND	NA	53.0
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
ND	ND	ND	44.4	ND	ND	2.38	ND	0.64	ND	ND	ND	ND	ND	ND	NA	47.4

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

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	1.0	1.0	PASS	1.00	0.80	
Benzene	ND	1.0	1.0	PASS	1.00	0.20	
Chloroform	ND	1.0	1.0	PASS	1.00	0.20	
Ethylene Oxide	ND	1.0	1.0	PASS	1.00	0.80	
Methylene chloride	ND	1.0	1.0	PASS	1.00	0.80	
Trichloroethylene	ND	1.0	1.0	PASS	1.00	0.20	

#### 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:
n-Butane	ND	5000	5000	PASS	2.0	0.50	
n-Pentane	ND	5000	5000	PASS	2.0	0.50	
Acetone	3.6	5000	5000	PASS	2.0	0.50	
Ethanol	16.1	5000	5000	PASS	2.0	0.50	
n-Hexane	ND	290	290	PASS	2.0	0.50	
Methanol	ND	3000	3000	PASS	2.0	0.50	
2-Propanol	ND	5000	5000	PASS	2.0	0.50	
Acetonitrile	ND	410	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	890	890	PASS	2.0	0.50	
Total xylenes	0.5	2170	2170	PASS	2.0	0.50	<LOQ
Propane	ND	5000	5000	PASS	2.0	0.50	
<b>Total Cat. 1 &amp; 2</b>	<b>21.0</b>						

### Heavy Metals:

block. Analysis using graphite furnace, atomic fluorescence spectroscopy, atomic absorption decomposition analysis

Compound	(ug/g)	Inhal. Action Lim. (ug/g)	Other Action Lim. (ug/g)	PASS/FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES:
Mercury	ND	0.1	3	PASS	0.03	0.006	
Lead	0.21	0.5	0.5	PASS	0.10	0.020	
Cadmium	ND	0.2	0.5	PASS	0.02	0.004	
Arsenic	ND	0.2	1.5	PASS	0.20	0.040	

### Homogeneity Testing:

Relative Standard Deviation **NT**  
 Homogeneity Result **NT**

### Label Claim Verification:

mg THC mg CBD  
 Package Claim Verification Results  
 % Difference **NA NA**  
 PASS/FAIL

### Filth and Foreign Material:

Inspection Results **NT**  
 Observations

### Testing performed by:

Pure Analytics  
 5468 Skylane Blvd Ste 102  
 Santa Rosa, CA 95403  
 CA License #: C8-0000018-LIC

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ND: Not Detected NA: Not Applicable; NT: Test Not Performed

Approved by: *Samantha J. Miller*

## Certificate of Analysis- Pure Analytics InfoTest™

**Customer Name:** *Market and Mission*

**Sample Name:** *1200 mg CBD Tincture*

**Lab Sample I.D.:** *MKT0009-1*

**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
<b>CA CATEGORY I</b>						
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	
Paclbutrazole	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	

**Mycotoxin Analysis:**

*Method: Acetone extraction with sonication, dSPE clean-up, LCMSMS analysis*

Compound	Result (ug/kg)	Action lim. (ug/kg)	PASS/ FAIL	LOQ (ug/kg)	LOD (ug/kg)	NOTES
Aflatoxin B1	NA	NA	NA	2.0	0.5	
Aflatoxin B2	NA	NA	NA	2.0	0.5	
Aflatoxin G1	NA	NA	NA	2.0	0.5	
Aflatoxin G2	NA	NA	NA	2.0	0.5	
Total Aflatoxin	NA	<20 ug/kg	NA	2.0	0.5	
Ochratoxin A	NA	<20 ug/kg	NA	2.0	0.5	

Compound	Result (ug/g)	Action lim. (ug/g)		PASS/ FAIL	LOQ (ug/g)	LOD (ug/g)	NOTES
		(Inhale)	(Other)				
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	
Chlorantranilprole	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	0.10	30	PASS	0.01	0.005	
Thiamethoxam	ND	5	5	PASS	0.10	0.01	

**Testing performed by:**

Pure Analytics

5468 Skylane Blvd Ste 102

Santa Rosa, CA 95403

CA License #: C8-0000018-LIC

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## Certificate of Analysis- Pure Analytics InfoTest™

**Customer Name:** *Market and Mission*

**Sample Name:** *1200 mg CBD Tincture*

**Lab Sample I.D.:** *MKT0009-1*

**Terpene Analysis:**

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

Compound	% wt.	Action lim. (ug/kg)	PASS/ FAIL	LOQ (ug/kg)	LOD (ug/kg)	NOTES
α-Pinene	NA	NA		0.01	0.005	
Camphene	NA	NA		0.01	0.005	
β-Pinene	NA	NA		0.01	0.005	
β-Myrcene	NA	NA		0.01	0.005	
3-Carene	NA	NA		0.01	0.005	
R-Limonene	NA	NA		0.01	0.005	
Eucalyptol	NA	NA		0.01	0.005	
Ocimene	NA	NA		0.01	0.005	
γ-Terpinene	NA	NA		0.01	0.005	
Terpinolene	NA	NA		0.01	0.005	
Linalool	NA	NA		0.01	0.005	
Fenchol	NA	NA		0.01	0.005	
(+)-Pulegone	NA	NA		0.01	0.005	
Menthol	NA	NA		0.01	0.005	
Borneol	NA	NA		0.01	0.005	
α-Terpineol	NA	NA		0.01	0.005	
Geraniol	NA	NA		0.01	0.005	
β-Caryophyllene	NA	NA		0.01	0.005	
α-Humulene	NA	NA		0.01	0.005	
Valencene	NA	NA		0.01	0.005	
Farnesene	NA	NA		0.01	0.005	
trans-Nerolidol	NA	NA		0.01	0.005	
cis-Nerolidol	NA	NA		0.01	0.005	
Guaiol	NA	NA		0.01	0.005	
α-Bisabolol	NA	NA		0.01	0.005	

Compound	% wt.	Action lim. (ug/kg)	PASS/ FAIL	LOQ (ug/kg)	LOD (ug/kg)	NOTES
Eicosane	NA	NA		0.01	0.005	
Camphor	NA	NA		0.01	0.005	
L-Fenchone	NA	NA		0.01	0.005	
Sabinene	NA	NA		0.01	0.005	
β-Caryoph. Ox.	NA	NA		0.01	0.005	
Phytol	NA	NA		0.01	0.005	
a-Phellandrene	NA	NA		0.01	0.005	
<b>Total %</b>	<b>NA</b>					

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