

# Muscle Roll on Gel 500mg

Sample ID: 2007CSALA8645.7582

Strain: Gel 500mg

Matrix: Topical

Produced: 07/07/2020

Type: Other

Collected: 07/10/2020

Sample Size: 1 units

Received: 07/10/2020

Batch Size:

Completed: 07/15/2020

Batch#: 1445BB0722

Client

Koi CBD

Lic. #



## Summary

Pass

<b>727.13 mg/package</b> Total Cannabinoids	<b>Pass</b> Pesticides	<b>Pass</b> Residual Solvents
<b>Pass</b> Microbials	<b>Pass</b> Mycotoxins	<b>Pass</b> Heavy Metals

## Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	mg/package	mg/ml
CBD	0.0059	0.018	530.44	5.96
CBN	0.0014	0.0041	137.95	1.55
CBG	0.0047	0.0143	37.38	0.42
CBC	0.0009	0.0027	21.36	0.24
CBDa	0.0012	0.0037	ND	ND
CBDV	0.0042	0.0126	ND	ND
CBGa	0.0016	0.005	ND	ND
THCa	0.002	0.006	ND	ND
THCV	0.0036	0.0111	ND	ND
Δ8-THC	0.0038	0.0115	ND	ND
Δ9-THC	0.0038	0.0115	ND	ND
<b>Total</b>			<b>727.13</b>	<b>8.17</b>

## Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
Eucalyptol	0.00017	0.0013	0.79	7.92
δ-Limonene	0.00016	0.0013	0.34	3.44
β-Myrcene	0.00012	0.0013	0.26	2.56
α-Pinene	0.00015	0.0013	0.23	2.29
β-Pinene	0.00034	0.0013	0.07	0.72
γ-Terpinene	0.00012	0.0013	0.04	0.43
α-Terpinene	0.00012	0.0013	0.04	0.36
δ-3-Carene	0.0004	0.0013	0.03	0.31
Camphene	0.00072	0.0013	0.02	0.17
Caryophyllene Oxide	0.00017	0.0013	ND	ND
Geraniol	0.00013	0.0013	ND	ND
Guaiol	0.00018	0.0013	ND	ND
Isopulegol	0.00011	0.0013	ND	ND
Linalool	0.00015	0.0013	ND	ND
Ocimene	0.00013	0.0013	ND	ND
p-Cymene	0.0001	0.0013	ND	ND
Terpinolene	0.00016	0.0013	ND	ND
trans-Nerolidol	0.00058	0.0013	ND	ND
α-Bisabolol	0.00015	0.0013	ND	ND
α-Humulene	0.00057	0.0013	ND	ND
β-Caryophyllene	0.00017	0.0013	ND	ND
<b>Total</b>			<b>1.82</b>	<b>18.18</b>

<b>ND</b> Total THC	<b>530.44 mg/package</b> Total CBD
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Package = 1 Roll On, 89.0 milliliters; Density = 1.0 g/ml; 0.0 mg/package Total THC; 530.44 mg/package Total CBD;

Date Tested: 07/14/2020

Total THC = THCa \* 0.877 + d9-THC

Total CBD = CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Date Tested: 07/13/2020

<b>NT</b> Moisture Moisture Analyzer SOP-103	<b>NT</b> Water Activity Water Activity Meter SOP-102	<b>Pass</b> Foreign Matter Visual Inspection SOP-600 Date Tested: 07/13/2020
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LABORATORY  
Accreditation No. 73653

Mallory Speakman  
Laboratory Director - LA  
07/15/2020

Anya Engen  
Quality Review  
07/15/2020

Musa Aman  
COA Review  
07/15/2020

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### Pesticides

**Pass**

Testing method: LCMS &amp; GCMS-SOP 301 and 302

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.0009	0.003	0.3	ND	Pass	Fludioxonil	0.0143	0.048	30	ND	Pass
Acephate	0.005	0.017	5	ND	Pass	Hexythiazox	0.0237	0.079	2	ND	Pass
Acequinocyl	0.0193	0.064	4	ND	Pass	Imazalil *	0.0077	0.026	0.0077	ND	Pass
Acetamidrid	0.0073	0.024	5	ND	Pass	Imidacloprid	0.0053	0.018	3	ND	Pass
Aldicarb *	0.0094	0.031	0.0094	ND	Pass	Kresoxim Methyl	0.0182	0.061	1	ND	Pass
Azoxystrobin	0.015	0.05	40	ND	Pass	Malathion	0.015	0.05	5	ND	Pass
Bifenazate	0.0129	0.043	5	ND	Pass	Metaxyl	0.0076	0.025	15	ND	Pass
Bifenthrin	0.029	0.097	0.5	ND	Pass	Methiocarb *	0.0103	0.034	0.0103	ND	Pass
Boscalid	0.0172	0.058	10	ND	Pass	Methomyl	0.0109	0.036	0.1	ND	Pass
Captan	0.036	0.12	5	ND	Pass	Methyl Parathion *	0.0091	0.0303	0.0091	ND	Pass
Carbaryl	0.0542	0.181	0.5	ND	Pass	Mevinphos *	0.0041	0.014	0.0041	ND	Pass
Carbofuran *	0.0077	0.026	0.0077	ND	Pass	Myclobutanil	0.01	0.033	9	ND	Pass
Chlorantranilprole	0.0095	0.032	40	ND	Pass	Naled	0.0107	0.036	0.5	ND	Pass
Chlordane *	0.0055	0.0182	0.0055	ND	Pass	Oxamyl	0.0071	0.024	0.2	ND	Pass
Chlorfenapyr *	0.0048	0.0159	0.0048	ND	Pass	Paclobutrazol *	0.0092	0.031	0.0092	ND	Pass
Chlorpyrifos *	0.0197	0.066	0.0197	ND	Pass	Pentachloronitrobenzene	0.0084	0.0279	0.2	ND	Pass
Clofentezine	0.0216	0.072	0.5	ND	Pass	Permethrin	0.0142	0.048	20	ND	Pass
Coumaphos *	0.0196	0.065	0.0196	ND	Pass	Phosmet	0.0138	0.046	0.2	ND	Pass
Cyfluthrin	0.0107	0.036	1	ND	Pass	Piperonyl Butoxide	0.0156	0.052	8	ND	Pass
Cypermethrin	0.0105	0.035	1	ND	Pass	Prallethrin	0.018	0.06	0.4	ND	Pass
Daminozide *	0.0052	0.017	0.0052	ND	Pass	Propiconazole	0.013	0.043	20	ND	Pass
DDVP *	0.0081	0.027	0.0081	ND	Pass	Propoxur *	0.0097	0.033	0.0097	ND	Pass
Diazinon	0.0134	0.045	0.2	ND	Pass	Pyrethrins	0.0025	0.008	1	ND	Pass
Dimethoate *	0.0083	0.028	0.0083	ND	Pass	Pyridaben	0.0236	0.079	3	ND	Pass
Dimethomorph	0.0025	0.008	20	ND	Pass	Spinetoram	0.0042	0.014	3	ND	Pass
Ethoprophos *	0.0112	0.037	0.0112	ND	Pass	Spinosad	0.0002	0.001	3	ND	Pass
Etofenprox *	0.0247	0.082	0.0247	ND	Pass	Spiromesifen	0.0199	0.066	12	ND	Pass
Etoazole	0.0269	0.09	1.5	ND	Pass	Spirotetramat	0.0068	0.023	13	ND	Pass
Fenhexamid	0.0215	0.072	10	ND	Pass	Spiroxamine *	0.0065	0.022	0.0065	ND	Pass
Fenoxycarb *	0.0186	0.062	0.0186	ND	Pass	Tebuconazole	0.0099	0.033	2	ND	Pass
Fenpyroximate	0.0253	0.084	2	ND	Pass	Thiacloprid *	0.0094	0.031	0.0094	ND	Pass
Fipronil *	0.0228	0.076	0.0228	ND	Pass	Thiamethoxam	0.005	0.017	4.5	ND	Pass
Flonicamid	0.0073	0.024	2	ND	Pass	Trifloxystrobin	0.0192	0.064	30	ND	Pass

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\* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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## Microbials

Testing method: PCR-SOP 401

Pass

Analyte	Result	Status
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

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## Mycotoxins

Testing method: LCMS-SOP 301

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	0.0036	0.012		ND	Tested
Aflatoxin B2	0.0092	0.031		ND	Tested
Aflatoxin G1	0.0058	0.019		ND	Tested
Aflatoxin G2	0.0034	0.011		ND	Tested
Total Aflatoxins			20	ND	Pass
Ochratoxin A	0.0113	0.038	20	ND	Pass

Date Tested: 07/15/2020

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## Heavy Metals

Testing method: ICPMS-SOP 502

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.02	0.06	1.5	ND	Pass
Cadmium	0.03	0.1	0.5	ND	Pass
Lead	0.002	0.005	0.5	ND	Pass
Mercury	0.02	0.06	3	ND	Pass

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## Residual Solvents

Testing method: HSGCMS-SOP 202

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.1	0.4	1	ND	Pass
Acetone	64.0	214.0	5000	ND	Pass
Acetonitrile	36.0	119.0	410	ND	Pass
Benzene	0.1	0.2	1	ND	Pass
Butane	42.0	141.0	5000	ND	Pass
Chloroform	0.1	0.4	1	ND	Pass
Ethanol	59.0	197.0		215401.167	Tested
Ethyl-Acetate	43.0	144.0	5000	ND	Pass
Ethylene Oxide	0.2	0.6	1	ND	Pass
Ethyl-Ether	40.0	134.0	5000	ND	Pass
Heptane	46.0	154.0	5000	ND	Pass
Isopropanol	41.0	138.0		ND	Tested
Methanol	160.0	534.0	3000	ND	Pass
Methylene-Chloride	0.1	0.4	1	ND	Pass
n-Hexane	42.0	139.0	290	ND	Pass
Pentane	69.0	229.0	5000	ND	Pass
Propane	21.0	70.0	5000	ND	Pass
Toluene	47.0	156.0	890	ND	Pass
Trichloroethene	0.1	0.4	1	ND	Pass
Xylenes	86.0	287.0	2170	ND	Pass

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