



Certificate of Analysis






Sample: LA40916006-005
Batch/Lot/Production Run#: MCP601SL
Laboratory License # 69204305475717257553
Retail Product Size: 56.699 gram
Retail Serving Size: NaN gram
Servings: NaN
Ordered: 09/13/24
Sampled: 09/16/24
Completed: 09/20/24

Sep 20, 2024 | Pacific Roots LLC
License # CBD

PASSED

Pages 1 of 5

SAFETY RESULTS

 Pesticides PASSED	 Heavy Metals PASSED	 Microbials PASSED	 Mycotoxins PASSED	 Residuals Solvents PASSED	 Filtration PASSED	 Water Activity NOT TESTED	 Moisture NOT TESTED	 Homogeneity Testing NOT TESTED	 Terpenes NOT TESTED
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1 unit = 1 container CBD Muscle Cream, 56.699g

 **Cannabinoid** **PASSED**

 Total THC 0.0338% Total THC/Container : 19.1640 mg	 Total CBD 1.0827% Total CBD/Container : 613.8800 mg	 Total Cannabinoids 1.3216% Total Cannabinoids/Container : 749.3330 mg
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	TOTAL CAN NABINOIDS	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
%	1.3216	0.0083	<LOQ	<LOQ	0.1758	1.0827	0.0019	0.0153	0.0316	0.0022	0.0038	<LOQ
mg/g	13.216	0.083	<LOQ	<LOQ	1.758	10.827	0.019	0.153	0.316	0.022	0.038	<LOQ
LOQ	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by: 1525, 1878, 2008 Weight: 2.8146g Extraction date: 09/18/24 11:14:37 Extracted by: 1525

Analysis Method : SOP.T.30.031.NV; SOP.T.40.031.NV Analytical Batch : LA006537POT Reviewed On : 09/19/24 21:55:01
Instrument Used : LV-SHIM-002 Batch Date : 09/16/24 18:00:12
Analyzed Date : N/A

Dilution : 40
Reagent : 120723.25; 080124.05; 060624.06; 082123.17; 082924.R05; 082724.R10
Consumables : 20220103; 258638; 1009097331; 265084
Pipette : LV-PIP-015; LV-PIP-008; LV-PIP-023

Cannabinoid analysis utilizing Ultra High Performance Liquid Chromatography with UV Detection (UHPLC-UV). Method SOP.T.30.031.NV for sample preparation and SOP.T.40.031.NV for analysis. Total THC = d8-THC + d9-THC + 0.877 * THCA, Total CBD = CBD + 0.877 * CBDA

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Kelly Zaugg
Lab Director

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Sample Method : SOP Client Method

License # : CBD

Batch# : M CPR6015L
Sampled : 09/16/24
Ordered : 09/16/24

Page 2 of 5



Pesticides

PASSED

Pesticide	LOQ	Units	Action Level	Pass/Fail	Result	Pesticide	LOQ	Units	Action Level	Pass/Fail	Result
ABAMECTIN	0.05	ppm	0.0001	PASS	<LOQ	PENTACHLORONITROBENZENE (PCNB) *	0.05	ppm	0.8	PASS	<LOQ
ACEQUINOCYL	0.05	ppm	4	PASS	<LOQ	Analyzed by: 888, 879, 1878, 2008 Weight: NA Extraction date: N/A Extracted by: 888 Analysis Method : SOP.T.30.101.NV; SOP.T.40.101.NV Analytical Batch : LA006543PES Reviewed On : 09/19/24 01:53:00 Instrument Used : Shimadzu LCMS-8060 Batch Date : 09/17/24 12:28:43 Analyzed Date : 09/17/24 12:42:03 Dilution : 5 Reagent : 081624.R08; 081624.R07; 091224.R01; 082124.R15 Consumables : N/A Pipette : LV-PIP-019; LV-PIP-040; LV-PIP-041; LV-PIP-034; LV-PIP-020 Pesticide screening is performed using LC-MS (Liquid Chromatography with Mass Spectrometry Detection) for regulated pesticides following SOP.T.30.101.NV and SOP.T.40.101.NV.					
BIFENAZATE	0.05	ppm	0.4	PASS	<LOQ	Analyzed by: 879, 1878, 2008 Weight: NA Extraction date: N/A Extracted by: 888 Analysis Method : SOP.T.30.151.NV; SOP.T.40.151.NV Analytical Batch : LA006557VOL Reviewed On : 09/19/24 01:54:41 Instrument Used : N/A Batch Date : 09/18/24 15:58:12 Analyzed Date : N/A Dilution : 5 Reagent : 081624.R08; 081624.R07; 091224.R01; 082124.R15 Consumables : N/A Pipette : LV-PIP-019; LV-PIP-040; LV-PIP-041; LV-PIP-034; LV-PIP-020 Pesticide screening is performed using GC (Gas Chromatography with Mass Spectrometry Detection) for regulated pesticides following SOP.T.30.151.NV and SOP.T.40.151.NV.					
BIFENTHRIN	0.05	ppm	0.0001	PASS	<LOQ						
CYFLUTHRIN	0.05	ppm	2	PASS	<LOQ						
CYPERMETHRIN	0.05	ppm	0.0001	PASS	<LOQ						
DAMINOZIDE	0.05	ppm	0.0001	PASS	<LOQ						
DIMETHOMORPH	0.05	ppm	2	PASS	<LOQ						
ETOXAZOLE	0.05	ppm	0.4	PASS	<LOQ						
FENHEXAMID	0.05	ppm	1	PASS	<LOQ						
FENOXYCARB	0.05	ppm	0.0001	PASS	<LOQ						
FLONICAMID	0.05	ppm	1	PASS	<LOQ						
FLUDIOXONIL	0.05	ppm	0.5	PASS	<LOQ						
IMIDACLOPRID	0.05	ppm	0.5	PASS	<LOQ						
MYCLOBUTANIL	0.05	ppm	0.4	PASS	<LOQ						
PIPERONYL BUTOXIDE	0.05	ppm	3	PASS	<LOQ						
PACLOBUTRAZOL	0.05	ppm	0.0001	PASS	<LOQ						
PYRETHRINS	0.05	ppm	2	PASS	<LOQ						
SPINETORAM	0.05	ppm	1	PASS	<LOQ						
SPINOSAD	0.05	ppm	1	PASS	<LOQ						
SPIROTETRAMAT	0.05	ppm	1	PASS	<LOQ						
THIAMETHOXAM	0.05	ppm	0.4	PASS	<LOQ						
TRIFLOXYSTROBIN	0.05	ppm	1	PASS	<LOQ						

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Kelly Zaugg
Lab Director

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ISO 17025 Accreditation # ISO/IEC
17025:2017: 97164

Signature
09/20/24



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Completed : 09/20/24 Expires: 09/20/25
Sample Method : SOP Client Method

License # : CBD

Batch# : MCPR601SL
Sampled : 09/16/24
Ordered : 09/16/24

Page 3 of 5

Residual Solvents		PASSED			
Solvents	LOQ	Units	Action Level	Pass/Fail	Result
PROPANE	100.0000	ppm	499.5	PASS	<LOQ
BUTANES	100.0000	ppm	499.5	PASS	<LOQ
HEPTANE	100.0000	ppm	499.5	PASS	<LOQ
ETHANOL	100.0000	ppm		TESTED	<LOQ

Analyzed by: 880, 889, 879, 2008	Weight: 0.0112g	Extraction date: 09/17/24 16:55:38	Extracted by: 880
Analysis Method : SOP.T.40.041.NV		Reviewed On : 09/19/24 01:53:26	
Analytical Batch : LA006547SOL		Batch Date : 09/17/24 16:50:21	
Instrument Used : LV-GCMS-001			
Analyzed Date : 09/17/24 16:58:28			
Dilution : N/A			
Reagent : 062420.02; 082123.32; 053023.05			
Consumables : N/A			
Pipette : 25C, Hamilton Gastight syringe, 25uL; GT6, Hamilton Gastight Syringe, 10 ul			

Residual solvent screening is performed by Headspace Gas Chromatography with Mass spectrometry following SOP.T.40.041.NV.

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
Batch# : MCPR6015L

Sampled : 09/16/24

Ordered : 09/16/24

Sample Method : SOP Client Method

Page 4 of 5

 Microbial PASSED						 Mycotoxins PASSED																																			
Analyte	LOQ	Units	Result	Pass / Fail	Action Level	Analyte	LOQ	Units	Result	Pass / Fail	Action Level																														
STEC			Not Present	PASS		TOTAL AFLATOXINS (B1, B2, G1, G2)	0.01	ppm	<LOQ	PASS	0.02																														
SALMONELLA			Not Present	PASS		OCHRATOXIN A	0.01	ppm	<LOQ	PASS	0.02																														
ENTEROBACTERIACEAE	100	cfu/g	<LOQ	PASS	999	Analyzed by: 879, 1878, 2008		Weight: NA	Extraction date: N/A	Extracted by: 888																															
YEAST AND MOLD	1000	cfu/g	<LOQ	PASS	9999	Analysis Method : SOP.T.30.101.NV; SOP.T.40.101.NV		Instrument Used : N/A		Reviewed On : 09/19/24 01:54:36																															
Analyzed by: 888, 1878, 879, 2008			Weight: 1.0412g			Extraction date: 09/18/24 17:50:26			Extracted by: 888																																
Analysis Method : SOP.T.40.058.FL; SOP.T.40.059B						Analysis Method : SOP.T.30.101.NV; SOP.T.40.101.NV																																			
Analytical Batch : LA006533MIC						Analytical Batch : LA006558MYC																																			
Instrument Used : LV-PCR-004 (Pathogen Dx MiniAmp Thermal Cycler)						Instrument Used : N/A																																			
Analyzed Date : N/A						Analyzed Date : N/A																																			
Dilution : N/A						Dilution : 5																																			
Reagent : 011023.06						Reagent : 081624.R08; 081624.R07; 091224.R01; 082124.R15																																			
Consumables : 61869-236C6-236; WO4129; WO4068; WO3895; WO3882; 042c6; 251697; 258638						Consumables : N/A																																			
Pipette : LV-PIP-021; LV-PIP-046; LV-PIP-049; LV-PIP-050; LV-PIP-051; LV-PIP-060; LV-PIP-006						Pipette : LV-PIP-019; LV-PIP-040; LV-PIP-041; LV-PIP-034; LV-PIP-020																																			
Analyzed by: 2008, 879, 1878						Total Aflatoxins B1, B2, G1, G2, and Ochratoxin A screening are performed by LC/MS/MS following SOP.T.30.101.NV and SOP.T.40.101.NV.																																			
Weight: NA						 Heavy Metals PASSED																																			
Extraction date: N/A						<table border="1"> <thead> <tr> <th>Metal</th> <th>LOQ</th> <th>Units</th> <th>Result</th> <th>Pass / Fail</th> <th>Action Level</th> </tr> </thead> <tbody> <tr> <td>ARSENIC</td> <td>0.167</td> <td>ppm</td> <td><LOQ</td> <td>PASS</td> <td>2</td> </tr> <tr> <td>CADMIUM</td> <td>0.167</td> <td>ppm</td> <td><LOQ</td> <td>PASS</td> <td>0.82</td> </tr> <tr> <td>LEAD</td> <td>0.167</td> <td>ppm</td> <td><LOQ</td> <td>PASS</td> <td>1.2</td> </tr> <tr> <td>MERCURY</td> <td>0.167</td> <td>ppm</td> <td><LOQ</td> <td>PASS</td> <td>0.4</td> </tr> </tbody> </table>						Metal	LOQ	Units	Result	Pass / Fail	Action Level	ARSENIC	0.167	ppm	<LOQ	PASS	2	CADMIUM	0.167	ppm	<LOQ	PASS	0.82	LEAD	0.167	ppm	<LOQ	PASS	1.2	MERCURY	0.167	ppm	<LOQ	PASS	0.4
Metal	LOQ	Units	Result	Pass / Fail	Action Level																																				
ARSENIC	0.167	ppm	<LOQ	PASS	2																																				
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LEAD	0.167	ppm	<LOQ	PASS	1.2																																				
MERCURY	0.167	ppm	<LOQ	PASS	0.4																																				
Extracted by: N/A						Analyzed by: 889, 879, 1878, 2008																																			
Analysis Method : SOP.T.40.209.NV; SOP.T.40.208						Weight: 0.48g																																			
Analytical Batch : LA006532TYM						Extraction date: 09/19/24 20:19:35																																			
Instrument Used : Micro plating with Flower, Edibles, Tinctures						Extracted by: 889,879																																			
Standard Dilutions						Analysis Method : SOP.T.30.081.NV; SOP.T.40.081.NV																																			
Analyzed Date : N/A						Analytical Batch : LA006548HEA																																			
Dilution : N/A						Instrument Used : ICPMS-2 Shimadzu																																			
Reagent : 091224.R02						Reviewed On : 09/19/24 20:31:16																																			
Consumables : 33NLN4; 418323095E; 418323077C; 33WKHH; 61869-236C6-236; 1009097331						Batch Date : 09/17/24 17:10:22																																			
Pipette : LV-PIP-021; LV-PIP-046						Analyzed Date : 09/19/24 15:37:02																																			
Microbial testing is performed by a combination of agar and Petrifilm plating as well as PCR (Polymerase Chain Reaction) to test for Mold/Yeast, Total Aerobic Count, Enterobacteria, Coliforms, Salmonella, Pathogenic E Coli, and Aspergillus.																																									
Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometry) using method SOP.T.30.081.NV and SOP.T.40.081.NV.																																									

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Page 5 of 5

	Filth/Foreign Material	PASSED
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Analyte	LOQ	Units	Result	P/F	Action Level
Filth and Foreign Material		detect/g	<LOQ	PASS	0.001

Analyzed by:	Weight:	Extraction date:	Extracted by:
N/A	NA	N/A	N/A

Analysis Method : SOP.T.40.090.NV		Reviewed On : 09/19/24 01:52:51	
Analytical Batch : N/A		Batch Date : N/A	
Instrument Used : N/A			
Analyzed Date : N/A			

Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

Samples are visually screened for foreign matter (hair, insects, packaging materials, etc.). For flower, stems >3 mm in diameter may only make up <5% of the sample.

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