

DATE ISSUED 06/10/2024

## SAMPLE NAME: National Releaf Soft Gels, 60ct Finished Good, 60mg Infused, Non-Inhalable

## **CULTIVATOR / MANUFACTURER**

**Business Name:** License Number: Address:

## **DISTRIBUTOR / TESTED FOR**

Business Name: P&B Labs Humboldt 11C License Number: CDPH-10003700 Address: 4325 BROADWAY EUREKA, CA 95503-5739

Date Collected: 06/07/2024

Date Received: 06/08/2024

Unit Mass: 56.4 grams per Unit

Serving Size: 0.94 grams per Serving

Sample Size: 1.0 units

Batch Size:



Scan QR code to verify authenticity of results.

#### SAMPLE DETAIL

Batch Number: 24-0138 Sample ID: 240607R040

#### **CANNABINOID ANALYSIS - SUMMARY**

Total THC: 132.935 mg/unit Total CBD: 3635.770 mg/unit Total Cannabinoids: 4199.600 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step: Total THC =  $\Delta^9$ -THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids =  $\Delta^9$ -THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 4199.600 mg/unit<sup>THCV + THCVa + CBC + CBCa + CBDV + CBDVa +  $\Delta^{8}$ -THC + CBL + CBN</sup> Total Cannabinoids =  $(\Delta^9$ -THC+0.877\*THCa) + (CBD+0.877\*CBDa) + (CBG+0.877\*CBGa) + (THCV+0.877\*THCVa) + (CBC+0.877\*CBCa) +  $(CBDV+0.877*CBDVa) + \Delta^8-THC + CBL + CBN$ 

#### SAFETY ANALYSIS - SUMMARY

 $\Delta^9$ -THC per Unit: **PASS** Residual Solvents: **PASS** Foreign Material: **PASS** 

Pesticides: **PASS** Heavy Metals: **PASS**  Mycotoxins: **PASS** Microbiology (PCR): PASS

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

LQC verified by: Kenrick Sueksdorf Job Title: Laboratory Assistant Date: 06/10/2024

Approved by: Josh Wurzer Title: Chief Compliance Officer Date: 06/10/2024

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NATIONAL RELEAF SOFT GELS, 60CT FINISHED GOOD, 60MG | DATE ISSUED 06/10/2024

## Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 132.935 mg/unit

Total THC ( $\Delta^9$ -THC+0.877\*THCa)

#### TOTAL CBD: 3635.770 mg/unit

Total CBD (CBD+0.877\*CBDa)

#### TOTAL CANNABINOIDS: 4199.600 mg/unit

 $\begin{array}{l} \mbox{Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta^8$-THC + CBL + CBN \\ \end{array}$ 

## TOTAL CBG: 116.015 mg/unit

Total CBG (CBG+0.877\*CBGa)

## TOTAL THCV: <LOQ

Total THCV (THCV+0.877\*THCVa)

## TOTAL CBC: 266.095 mg/unit

Total CBC (CBC+0.877\*CBCa)

## TOTAL CBDV: 35.927 mg/unit

Total CBDV (CBDV+0.877\*CBDVa)

#### CANNABINOID TEST RESULTS - 06/09/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.080/0.220	±2.4045	64.464	6.4464
CBC	0.060 / 0.200	±0.1519	4.718	0.4718
∆ <sup>9</sup> -THC	0.040 / 0.280	±0.1294	2.357	0.2357
CBG	0.040 / 0.120	±0.0998	2.057	0.2057
CBDV	0.040 / 0.240	±0.0260	0.637	0.0637
CBN	0.020/0.140	±0.0065	0.228	0.0228
THCV	0.040 / 0.240	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
∆ <sup>8</sup> -THC	0.20/0.40	N/A	ND	ND
THCa	0.020/0.100	N/A	ND	ND
THCVa	0.040 / 0.380	N/A	ND	ND
CBDa	0.020/0.520	N/A	ND	ND
CBDVa	0.020/0.360	N/A	ND	ND
CBGa	0.040 / 0.140	N/A	ND	ND
CBL	0.060 / 0.200	N/A	ND	ND
CBCa	0.020/0.300	N/A	ND	ND
SUM OF CANNA	BINOIDS		74.461 mg/g	7.4461%

#### Unit Mass: 56.4 grams per Unit / Serving Size: 0.94 grams per Serving

$\Delta^9$ -THC per Unit	1100 per-package limit	132.935 mg/unit PASS
$\Delta^9$ -THC per Serving		2.216 mg/serving
Total THC per Unit		132.935 mg/unit
Total THC per Serving		2.216 mg/serving
CBD per Unit		3635.770 mg/unit
CBD per Serving		60.596 mg/serving
Total CBD per Unit		3635.770 mg/unit
Total CBD per Serving		60.596 mg/serving
Sum of Cannabinoids per Unit		4199.600 mg/unit
Sum of Cannabinoids per Serving		69.993 mg/serving
Total Cannabinoids per Unit		4199.600 mg/unit
Total Cannabinoids per Serving		69.993 mg/serving





NATIONAL RELEAF SOFT GELS, 60CT FINISHED GOOD, 60MG | DATE ISSUED 06/10/2024

## Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

\*GC-MS utilized where indicated.

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

## PESTICIDE TEST RESULTS - 06/10/2024 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Abamectin	0.032/0.097	0.3	N/A	ND	PASS
Acephate	0.006/0.018	5	N/A	ND	PASS
Acequinocyl	0.009/0.027	4	N/A	ND	PASS
Acetamiprid	0.016/0.049	5	N/A	ND	PASS
Aldicarb	0.030 / 0.090	≥LOD	N/A	ND	PASS
Allethrin	0.030/0.092		N/A	ND	
Atrazine	0.006/0.019		N/A	ND	
Azadirachtin	0.082/0.248		N/A	ND	
Azoxystrobin	0.003/0.009	40	N/A	ND	PASS
Benzovindiflupyr	0.003/0.009		N/A	ND	
Bifenazate	0.003/0.009	5	N/A	ND	PASS
Bifenthrin	0.021/0.064	0.5	N/A	ND	PASS
Boscalid	0.003/0.009	10	N/A	ND	PASS
Buprofezin	0.006/0.019		N/A	ND	
Captan	0.045 / 0.135	5	N/A	ND	PASS
Carbaryl	0.007/0.020	0.5	N/A	ND	PASS
Carbofuran	0.003 / 0.008	≥LOD	N/A	ND	PASS
Chlorantraniliprole	0.006 / 0.018	40	N/A	ND	PASS
Chlordane*	0.010/0.032	≥LOD	N/A	ND	PASS
Chlorfenapyr*	0.005 / 0.015	≥LOD	N/A	ND	PASS
Chlormequat chloride	0.022/0.066		N/A	ND	
Chlorpyrifos	0.013/0.039	≥LOD	N/A	ND	PASS
Clofentezine	0.003 / 0.009	0.5	N/A	ND	PASS
Clothianidin	0.008/0.025		N/A	ND	
Coumaphos	0.003/0.010	≥LOD	N/A	ND	PASS
Cyantraniliprole	0.003/0.010		N/A	ND	
Cyfluthrin	0.052/0.159	1	N/A	ND	PASS
Cypermethrin	0.051/0.153	1	N/A	ND	PASS
Cyprodinil	0.003 / 0.008		N/A	ND	
Daminozide	0.026/0.077	≥LOD	N/A	ND	PASS
Deltamethrin	0.059/0.180		N/A	ND	
Diazinon	0.006 / 0.017	0.2	N/A	ND	PASS
Dichlorvos (DDVP)	0.012/0.038	≥LOD	N/A	ND	PASS
Dimethoate	0.003/0.009	≥LOD	N/A	ND	PASS
Dimethomorph	0.016/0.050	20	N/A	ND	PASS
Dinotefuran	0.010/0.030		N/A	ND	
Diuron	0.013/0.040		N/A	ND	
Dodemorph	0.012/0.035		N/A	ND	
Endosulfan sulfate	0.016/0.048		N/A	ND	
Endosulfan-α*	0.004/0.014		N/A	ND	
Endosulfan-β*	0.006 / 0.019		N/A	ND	

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NATIONAL RELEAF SOFT GELS, 60CT FINISHED GOOD, 60MG | DATE ISSUED 06/10/2024

## Pesticide Analysis Continued

## PESTICIDE TEST RESULTS - 06/10/2024 continued 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Ethoprophos	0.003/0.009	≥LOD	N/A	ND	PASS
Etofenprox	0.014/0.042	≥LOD	N/A	ND	PASS
Etoxazole	0.007/0.020	1.5	N/A	ND	PASS
Etridiazole*	0.002/0.005		N/A	ND	
Fenhexamid	0.003/0.008	10	N/A	ND	PASS
Fenoxycarb	0.003/0.010	≥LOD	N/A	ND	PASS
Fenpyroximate	0.007/0.020	2	N/A	ND	PASS
Fensulfothion	0.003/0.010		N/A	ND	
Fenthion	0.003/0.010		N/A	ND	
Fenvalerate	0.033/0.099		N/A	ND	
Fipronil	0.003/0.010	≥LOD	N/A	ND	PASS
Flonicamid	0.007/0.022	2	N/A	ND	PASS
Fludioxonil	0.003/0.010	30	N/A	ND	PASS
Fluopyram	0.003/0.009		N/A	ND	
Hexythiazox	0.003/0.010	2	N/A	ND	PASS
Imazalil	0.003/0.009	≥LOD	N/A	ND	PASS
Imidacloprid	0.003/0.010	3	N/A	ND	PASS
Iprodione	0.077/0.233		N/A	ND	
Kinoprene	0.077/0.233		N/A	ND	
Kresoxim-methyl	0.006/0.019	1	N/A	ND	PASS
$\lambda$ -Cyhalothrin	0.068/0.206		N/A	ND	
Malathion	0.003/0.009	5	N/A	ND	PASS
Metalaxyl	0.003/0.010	15	N/A	ND	PASS
Methiocarb	0.003/0.008	≥LOD	N/A	ND	PASS
Methomyl	0.00 <mark>8 / 0.025</mark>	0.1	N/A	ND	PASS
Methoprene	0.172/0.521		N/A	ND	
Mevinphos	0.008 / 0.024	≥LOD	N/A	ND	PASS
MGK-264	0.015/0.047		N/A	ND	
Myclobutanil	0.003/0.009	9	N/A	ND	PASS
Naled	0.021/0.064	0.5	N/A	ND	PASS
Novaluron	0.002/0.005		N/A	ND	
Oxamyl	0.017/0.051	0.2	N/A	ND	PASS
Paclobutrazol	0.003/0.010	≥LOD	N/A	ND	PASS
Parathion-methyl	0.016/0.050	≥LOD	N/A	ND	PASS
Pentachloronitrobenzene*	0.004/0.012	0.2	N/A	ND	PASS
Permethrin	0.056 / 0.168	20	N/A	ND	PASS
Phenothrin	0.016/0.047		N/A	ND	
Phosmet	0.007/0.020	0.2	N/A	ND	PASS
Piperonyl Butoxide	0.010/0.029	8	N/A	ND	PASS
Pirimicarb	0.003/0.009		N/A	ND	
Prallethrin	0.015/0.046	0.4	N/A	ND	PASS

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NATIONAL RELEAF SOFT GELS, 60CT FINISHED GOOD, 60MG | DATE ISSUED 06/10/2024

## Pesticide Analysis Continued

## PESTICIDE TEST RESULTS - 06/10/2024 continued 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Propiconazole	0.027/0.080	20	N/A	ND	PASS
Propoxur	0.003/0.008	≥LOD	N/A	ND	PASS
Pyraclostrobin	0.003/0.010		N/A	ND	
Pyrethrins	0.016/0.049	1	N/A	ND	PASS
Pyridaben	0.005/0.017	3	N/A	ND	PASS
Pyriproxyfen	0.003/0.009		N/A	ND	
Resmethrin	0.013/0.039		N/A	ND	
Spinetoram	0.003/0.010	3	N/A	ND	PASS
Spinosad	0.003/0.010	3	N/A	ND	PASS
Spirodiclofen	0.031/0.093		N/A	ND	
Spiromesifen	0.016/0.050	12	N/A	ND	PASS
Spirotetramat	0.003/0.010	13	N/A	ND	PASS
Spiroxamine	0.020/0.062	≥LOD	N/A	ND	PASS
Tebuconazole	0.003/0.010	2	N/A	ND	PASS
Tebufenozide	0.003/0.008		N/A	ND	
Teflubenzuron	0.007/0.022		N/A	ND	
Tetrachlorvinphos	0.003/0.008		N/A	ND	
Tetramethrin	0.021/0.063		N/A	ND	
Thiabendazole	0.006 / 0.020		N/A	ND	
Thiacloprid	0.003/0.009	≥LOD	N/A	ND	PASS
Thiamethoxam	0.003/0.010	4.5	N/A	ND	PASS
Thiophanate-methyl	0.013/0.040		N/A	ND	
Trifloxystrobin	0.003 / 0.00 <mark>9</mark>	30	N/A	ND	PASS

## ្លំ🍟 Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

 $\ensuremath{\textbf{Method:}}\xspace$  QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

## MYCOTOXIN TEST RESULTS - 06/10/2024 O PASS

COMPOUND	LO <mark>D/LOQ</mark> (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (μg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	1.6 / 5.0		N/A	ND	
Aflatoxin B2	1.4 / 4.1		N/A	ND	
Aflatoxin G1	1.6 / 4.9		N/A	ND	
Aflatoxin G2	1.6 / 5.0		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	1.6 / 5.0	20	N/A	ND	PASS

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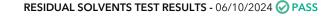


NATIONAL RELEAF SOFT GELS, 60CT FINISHED GOOD, 60MG | DATE ISSUED 06/10/2024



Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS



COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Propane	10/20	5000	N/A	ND	PASS
n-Butane	10/50	5000	N/A	ND	PASS
n-Pentane	20/50	5000	N/A	ND	PASS
n-Hexane	2/5	290	N/A	ND	PASS
n-Heptane	20/60	5000	N/A	ND	PASS
Benzene	0.03/0.09	1	N/A	ND	PASS
Toluene	7/21	890	N/A	ND	PASS
Total Xylenes	50/160	2170	N/A	ND	PASS
Methanol	50/200	3000	N/A	ND	PASS
Ethanol	20/50	5000	N/A	ND	PASS
2-Propanol (Isopropyl Alcohol)	10/40	5000	N/A	ND	PASS
Acetone	20/50	5000	N/A	ND	PASS
Ethyl Ether	20/50	5000	N/A	ND	PASS
Ethylene Oxide	0.3/0.8	1	N/A	ND	PASS
Ethyl Acetate	20/60	5000	N/A	ND	PASS
Chloroform	0.1/0.2	1	N/A	ND	PASS
Dichloromethane (Methylene Chloride)	0.3/0.9	1	N/A	ND	PASS
Trichloroethylene	0.1/0.3	1	N/A	ND	PASS
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Acetonitrile	2/7	410	N/A	ND	PASS

### HEAVY METALS TEST RESULTS - 06/09/2024 📀 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02 / <mark>0.1</mark>	1.5	N/A	ND	PASS
Cadmium	0.02 / <mark>0.05</mark>	0.5	N/A	ND	PASS
Lead	0.0 <mark>4 / 0.1</mark>	0.5	N/A	ND	PASS
Mercury	0.00 <mark>2/0.01</mark>	3	N/A	ND	PASS

## IS MICROBIOLOGY TEST RESULTS (PCR) - 06/10/2024 O PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing Escherichia coli	Not Detected in 1g	ND	PASS
Salmonella spp.	Not Detected in 1g	ND	PASS

Heavy metal analysis utilizing inductively

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

coupled plasma-mass spectrometry (ICP-MS).

**Heavy Metals Analysis** 



Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

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NATIONAL RELEAF SOFT GELS, 60CT FINISHED GOOD, 60MG | DATE ISSUED 06/10/2024

# ⇒<sup>6</sup>. Foreign Material Analysis

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

**Method:** QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

## FOREIGN MATERIAL TEST RESULTS - 06/08/2024 🔗 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	None	PASS
Total Sample Area Covered by Mold	>25%	None	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	None	PASS
Insect Fragment Count	> 1 per 3 grams	0.0	PASS
Hair Count	> 1 per 3 grams	0.0	PASS
Mammalian Excreta Count	> 1 per 3 grams	0.0	PASS