

# Certificate of Analysis

Produced: Nov 12, 2024

**Sample:** Full Spectrum CBD + CBN Oil 4000mg (CBD 2000mg + CBN 2000mg), 60ml (Tincture) • **Client:** Neurogan Inc. • **Batch:** Passed as California Hemp



**Batch No.:** DK23-8231  
**Matrix:** Tincture  
**Density:** 0.92066 g/ml  
**Sample ID:** ICC-241017-20-004  
**Collected on:** Oct 17, 2024  
**Received on:** Oct 17, 2024  
**Sample Size:**  
**Received By:** Rebecca Fischer  
**Package Size:** 54.58 g

**Batch Result:** Passed as California Hemp

<b>Potency</b>	Tested	<b>Mycotoxins</b>	Pass
<b>Foreign</b>	Pass	<b>Pesticides</b>	Tested
<b>Metals</b>	Pass	<b>Solvents</b>	Pass
<b>Microbial</b>	Pass		

### Cannabinoid Overview

<b>Δ<sup>9</sup>-THC:</b>	<b>30.7 mg/pkg</b>
<b>CBD:</b>	<b>2110 mg/pkg</b>
<b>Sum of Cannabinoids:</b>	<b>4340 mg/pkg</b>

### POT-INST-005: Potency

Analyte	Amt (mg/pkg)	Amt (%)	Amt (mg/ml)	LOD/LOQ (mg/g)	Analyte	Amt (mg/pkg)	Amt (%)	Amt (mg/ml)	LOD/LOQ (mg/g)
CBC	94.4	0.173	1.6	0.122/0.365	CBT	44.1	0.0808	0.74	0.0527/0.184
CBD	2110	3.86	36	0.0372/0.184	Δ <sup>8</sup> -THC		ND	ND	0.0298/0.184
CBDA		ND	ND	0.0889/0.267	Δ <sup>9</sup> -THC	30.7	0.0562	0.52	0.0492/0.184
CBDV	23.5	0.0431	0.40	0.0295/0.184	THCA		ND	ND	0.0676/0.203
CBG		ND	ND	0.0420/0.184	THCV		ND	ND	0.0227/0.184
CBGA		ND	ND	0.0655/0.197	<b>Total THC**</b>	30.7	0.0562	0.52	
CBL		ND	ND	0.0290/0.184	<b>Total CBD**</b>	2110	3.86	36	
CBN	2040	3.74	34	0.0420/0.184					

Total THC = THCa \* 0.877 + d9-THC; Total CBD = CBDa \* 0.877 + CBD; NR= Not Reported, ND= Not Detected, \*Reported by Dry Mass\*; \*analytical instrumentation used Cannabinoids: UHPLC-DAD, Moisture: Mass by Drying, Water Activity: Water Activity Meter, Foreign: Microscope\* \*Density tested at a temperature range between 19-24 °C, \*\*Water Activity tested at a humidity range between 0-90% Relative Humidity. All OA samples are sampled by the client, All California State Compliant samples sampled using SAMPL-SOP-001.



**PESTMYCO-LC-PREP-001, PESTMYCO-LC-INST-004: Pesticide Analysis by LC-MS/MS**

Analyte	Amt (µg/g)	LOD/LOQ (µg/g)	Analyte	Amt (µg/g)	LOD/LOQ (µg/g)
Abamectin	ND	0.0500/0.100	Malathion	ND	0.00485/0.0300
Abamectin Ba	ND	0.0500/0.100	Metalaxyl	ND	0.00340/0.0300
Acephate	ND	0.0209/0.0635	Methiocarb	ND	0.00542/0.0300
Acequinocyl	ND	0.0115/0.0347	Methomyl	ND	0.00645/0.0300
Acetamiprid	ND	0.00581/0.0300	Mevinphos	ND	0.0105/0.0319
Aldicarb	ND	0.00935/0.0300	Myclobutanil	ND	0.00735/0.0300
Azoxystrobin	ND	0.00322/0.0300	Naled	ND	0.00459/0.0300
Bifenazate	ND	0.00473/0.0300	Oxamyl	ND	0.00850/0.0300
Bifenthrin	ND	0.00583/0.0300	Paclobutrazol	ND	0.00577/0.0300
Boscalid	ND	0.00747/0.0300	Permethrin	ND	0.00178/0.0300
Carbaryl	ND	0.00404/0.0300	Permethrin cis	ND	0.0200/0.0300
Carbofuran	ND	0.00239/0.0300	Permethrin trans	ND	0.0200/0.0300
Chlorantraniliprole	ND	0.00563/0.0300	Phosmet	ND	0.00527/0.0300
Chlorpyrifos	< LOQ	0.00807/0.0300	Piperonylbutoxide	ND	0.00635/0.0300
Clofentezine	ND	0.00464/0.0300	Prallethrin	ND	0.0180/0.0546
Coumaphos	ND	0.00463/0.0300	Propiconazole	ND	0.0124/0.0375
Daminozide	ND	0.0107/0.0325	Propoxur	ND	0.00524/0.0300
Diazinon	ND	0.00926/0.0300	Pyrethrins	ND	0.00192/0.0300
Dichlorvos	ND	0.00728/0.0300	Pyrethrins Pyrethrin I	ND	0.0100/0.0450
Dimethoate	ND	0.00650/0.0300	Pyrethrins Pyrethrin II	ND	0.0100/0.0300
Dimethomorph	ND	0.00871/0.0300	Pyridaben	ND	0.00547/0.0300
Ethoprophos	ND	0.00391/0.0300	Spinetoram	ND	0.00295/0.0300
Etofenprox	ND	0.00550/0.0300	Spinetoram J	ND	0.00500/0.0100
Etoxazole	ND	0.00349/0.0300	Spinetoram L	ND	0.00500/0.0100
Fenhexamid	ND	0.00833/0.0300	Spinosad	ND	0.00275/0.0300
Fenoxycarb	ND	0.00572/0.0300	Spinosad A	ND	0.00500/0.0100
Fenpyroximate	ND	0.00549/0.0300	Spinosad D	ND	0.00500/0.0100
Fipronil	ND	0.00771/0.0300	Spiromesifen	ND	0.00540/0.0300
Fonicamid	ND	0.0151/0.0458	Spirotetramat	ND	0.00648/0.0300
Fludioxonil	ND	0.0158/0.0478	Spiroxamine	ND	0.00264/0.0300
Hexythiazox	ND	0.0102/0.0308	Tebuconazole	ND	0.00895/0.0300
Imazalil	ND	0.00863/0.0300	Thiacloprid	ND	0.00177/0.0300
Imidacloprid	ND	0.00861/0.0300	Thiamethoxam	ND	0.00553/0.0300
Kresoxim-methyl	ND	0.00703/0.0300	Trifloxystrobin	ND	0.00234/0.0300

**PEST-GC-PREP-001, PEST-GC-INST-003: Pesticide Analysis by GC-MS/MS**

Analyte	Amt (µg/g)	LOD/LOQ (µg/g)	Analyte	Amt (µg/g)	LOD/LOQ (µg/g)
Captan	ND	0.120/0.358	Cypermethrin	ND	0.0145/0.0435
Chlordane	ND	0.0249/0.0747	Methyl parathion	ND	0.00811/0.0243
Chlorfenapyr	ND	0.0251/0.0753	Pentachloronitrobenzene	ND	0.0182/0.0545
Cyfluthrin	ND	0.0186/0.0558			

**PESTMYCO-LC-PREP-001, PESTMYCO-LC-INST-004: Mycotoxin Analysis by LC-MS/MS**

Analyte	Limit (µg/kg)	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail	Analyte	Limit (µg/kg)	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail
Aflatoxin B1		ND	2.05/6.20	N/A	Aflatoxin G2		ND	1.02/5.00	N/A
Aflatoxin B2		ND	1.63/5.00	N/A	Aflatoxins	20	ND		Pass
Aflatoxin G1		ND	1.77/5.38	N/A	Ochratoxin A	20	ND	5.42/16.4	Pass

**RS-PREP-001, RS-INST-003: Residual Solvents by GC-MS**

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/ml)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/ml)	Pass/Fail
1,2-Dichloroethane	1	ND	0.138/0.420	Pass	Hexane	290	ND	0.0545/0.232	Pass
Acetone	5000	ND	14.1/42.3	Pass	Isopropyl alcohol	5000	ND	1.06/3.17	Pass
Acetonitrile	410	ND	0.0990/0.296	Pass	Methanol	3000	ND	2.45/7.36	Pass
Benzene	1	ND	0.0173/0.0527	Pass	Methylene chloride	1	ND	0.105/0.601	Pass
Butane	5000	ND	0.801/4.00	Pass	Pentane	5000	ND	0.794/3.52	Pass
Chloroform	1	ND	0.0297/0.0891	Pass	Propane	5000	ND	3.66/11.0	Pass
Ethanol	5000	ND	2.16/6.47	Pass	Toluene	890	ND	0.0726/0.713	Pass
Ethyl acetate	5000	ND	0.258/1.89	Pass	Trichloroethylene	1	ND	0.0149/0.120	Pass
Ethylene oxide	1	ND	0.126/0.478	Pass	o-Xylene		ND	0.0831/0.707	N/A
Ethyl ether	5000	ND	0.976/2.93	Pass	p- and m-Xylene		ND	0.0952/1.41	N/A
Heptane	5000	10.2	0.567/2.36	Pass	Total xylenes	2170	ND	0.0168/0.143	Pass

**MICRO-008, MICRO-PREP-001, MICRO-INST-001: PCR-Microbial (noninhalable)**

Analyte	Amt	Pass/Fail	Analyte	Amt	Pass/Fail
Salmonella spp.	ND	Pass	Shiga toxin-producing E. coli	ND	Pass



# HM-PREP-001, HM-INST-003: Heavy Metals Testing by ICP-MS

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Arsenic	1.5	ND	0.00300/0.00900	Pass
Cadmium	0.5	ND	0.00100/0.00200	Pass

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Lead	0.5	< LOQ	0.00100/0.00400	Pass
Mercury	3	ND	0.00500/0.0140	Pass

