# Certificate of Analysis

**State of FL OMMU License Number: CMTL-006**
**ISO/IEC 17025 ACCREDITATION # 109150**

## NO6237- Rare Cannabinoids 500mg CBG Defense Tincture

**Lab Number:** F501412-01 **- Date reported:** February 06, 2025

**Client: Rare Cannabinoids Company**
**Address:** PO Box 61242, Honolulu, HI 96830
**Phone:** (808) 762-1313
**Project:** Project 01/28/2025
**Lab Number:** F501412-01
**Batch#:** 4497

**Date Sampled:** 01/28/2025
**Data Received:**01/28/2025

**Compliance for Retail**


## SUMMARY

| POTENCY | TERPENES | PESTICIDES | HEAVY METALS |
|---|---|---|---|
| Tested | Not Tested | Pass | Pass |

| RESIDUAL SOLVENTS | MICROBIAL TESTING | MYCOTOXINS | MOISTURE CONTENT |
|---|---|---|---|
| Fail | Pass | Pass | Not Tested |

| FOREIGN MATERIALS | WATER ACTIVITY |
|---|---|
| Pass | Pass |



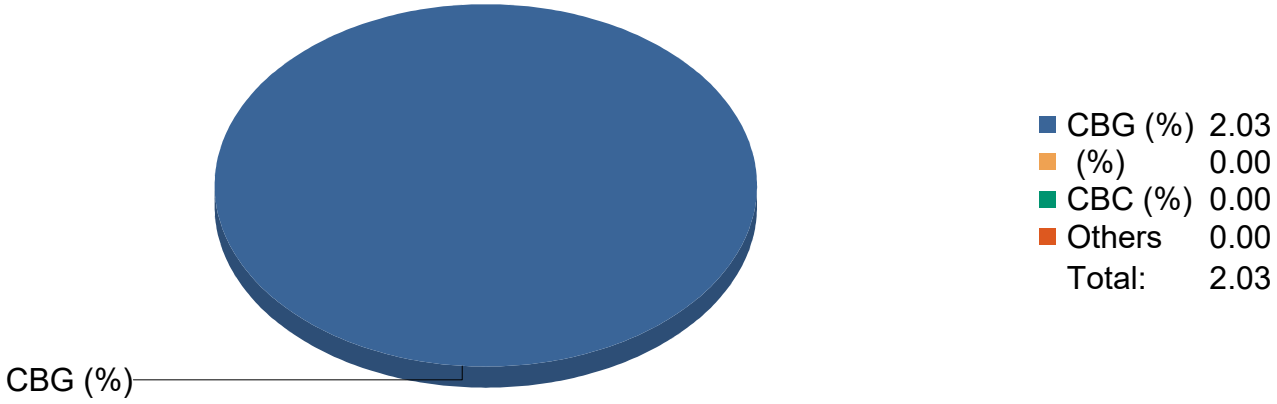
PJLA Testing
Accreditation#: 109150

Dr. Harry Bezhadi, PhD.
President, CEO

## NO6237- Rare Cannabinoids 500mg CBG Defense Tincture

**Lab Number:** F501412-01 **- Date reported:** February 06, 2025

## Cannabinoids Summary Profile




**2.03%**
**Total Cannabinoids**

**< LOQ**
**Δ9-THC**

**ND%**
**Total THC**

**ND%**
**Total CBD**

## NO6237- Rare Cannabinoids 500mg CBG Defense Tincture

**Lab Number:** F501412-01 **- Date reported:** February 06, 2025

## Potency (as Received)

**Tested**

**Container Label (wt/vol):** 30 mL **Servings per Container:** 1 **Serving Size:** 30 mL

**Date Prepared:** 01/31/2025
**Date Analyzed:** 01/31/2025
**Lab Batch:** B25A061

**Prep ID:** TL
**Analyst ID:** DH

**Specimen Prep:** 0.2562 g / 10 mL
**Prep/Analysis Method:** ACCU LAB SOP15

| Analyte | Dilution | LOQ | Results | | | |
|---|---|---|---|---|---|---|
| | | | % | mg/g | mg/Serving | mg/Container |
| Cannabichromene (CBC) | 10 | 0.0390 | ND | ND | ND | ND |
| Cannabichromenic acid (CBCA) | 10 | 0.0390 | ND | ND | ND | ND |
| Cannabidiol (CBD) | 10 | 0.0390 | ND | ND | ND | ND |
| Cannabidiolic acid (CBDA) | 10 | 0.0390 | ND | ND | ND | ND |
| Cannabidivarin (CBDV) | 10 | 0.0390 | ND | ND | ND | ND |
| Cannabidivarinic acid (CBDVA) | 10 | 0.0390 | ND | ND | ND | ND |
| **Cannabigerol (CBG)** | 10 | 0.0390 | **2.03** | **20.3** | **609.00** | **609.00** |
| Cannabigerolic acid (CBGA) | 10 | 0.0390 | ND | ND | ND | ND |
| Cannabinol (CBN) | 10 | 0.0390 | ND | ND | ND | ND |
| Δ8-Tetrahydrocannabinol (Δ8-THC) | 10 | 0.0390 | ND | ND | ND | ND |
| Δ9-Tetrahydrocannabinol (Δ9-THC) | 10 | 0.0390 | ND | ND | ND | ND |
| Δ9-Tetrahydrocannabinolic acid (THCA) | 10 | 0.0390 | ND | ND | ND | ND |
| Tetrahydrocannabivarin (THCV) | 10 | 0.0390 | ND | ND | ND | ND |
| Tetrahydrocannabivarinic acid (THCVA) | 10 | 0.0390 | ND | ND | ND | ND |

**Definitions and Abbreviations:**
**Total CBD** = CBD + (CBDA * 0.877), **Total THC** = THCA * 0.877 + Delta 9 THC, **LOQ** = Limit of Quantitation, **ND** = Non-Detect.

## NO6237- Rare Cannabinoids 500mg CBG Defense Tincture

**Lab Number:** F501412-01 **- Date reported:** February 06, 2025

## Pesticides

**Pass**

**Date Prepared:** 01/30/2025 **Prep ID:** AJ
**Date Analyzed:** 01/30/2025 **Analyst ID:** AJ
**Lab Batch:** B25A016

**Specimen Prep:** 1.0064 g / 10 mL
**Instrument:** LC/MS/MS
**Analysis Method:** ACCU LAB SOP18

| Analyte | DIL | Action Limit ppb | LOQ ppb | Results ppb | Status |
|---|---|---|---|---|---|
| Abamectin | 10 | 300 | 5.0 | ND | Pass |
| Acephate | 10 | 3000 | 5.0 | ND | Pass |
| Acequinocyl | 10 | 2000 | 5.0 | ND | Pass |
| Acetamiprid | 10 | 3000 | 5.0 | ND | Pass |
| Aldicarb | 10 | 100 | 5.0 | ND | Pass |
| Azoxystrobin | 10 | 3000 | 5.0 | ND | Pass |
| Bifenazate | 10 | 3000 | 5.0 | ND | Pass |
| Bifenthrin | 10 | 500 | 5.0 | ND | Pass |
| Boscalid | 10 | 3000 | 5.0 | ND | Pass |
| Carbaryl | 10 | 500 | 5.0 | ND | Pass |
| Carbofuran | 10 | 100 | 5.0 | ND | Pass |
| Chlorantraniliprole | 10 | 3000 | 5.0 | ND | Pass |
| Chlorfenapyr | 10 | 100 | 5.0 | ND | Pass |
| Chlormequat | 10 | 3000 | 5.0 | ND | Pass |
| Chlorpyrifos | 10 | 100 | 5.0 | ND | Pass |
| Clofentezine | 10 | 500 | 5.0 | ND | Pass |
| Coumaphos | 10 | 100 | 5.0 | ND | Pass |
| Cyfluthrin | 10 | 1000 | 5.0 | ND | Pass |
| Cypermethrin | 10 | 1000 | 5.0 | ND | Pass |

| Analyte | DIL | Action Limit ppb | LOQ ppb | Results ppb | Status |
|---|---|---|---|---|---|
| Daminozide | 10 | 100 | 5.0 | ND | Pass |
| Diazinon | 10 | 200 | 5.0 | ND | Pass |
| Dichlorvos | 10 | 100 | 5.0 | ND | Pass |
| Dimethoate | 10 | 100 | 5.0 | ND | Pass |
| Dimethomorph | 10 | 3000 | 5.0 | ND | Pass |
| Ethoprophos | 10 | 100 | 5.0 | ND | Pass |
| Etofenprox | 10 | 100 | 5.0 | ND | Pass |
| Etoxazole | 10 | 1500 | 5.0 | ND | Pass |
| Fenhexamid | 10 | 3000 | 5.0 | ND | Pass |
| Fenoxycarb | 10 | 100 | 5.0 | ND | Pass |
| Fenpyroximate | 10 | 2000 | 5.0 | ND | Pass |
| Fipronil | 10 | 100 | 5.0 | ND | Pass |
| Flonicamid | 10 | 2000 | 5.0 | ND | Pass |
| Fludioxonil | 10 | 3000 | 5.0 | ND | Pass |
| Hexythiazox | 10 | 2000 | 5.0 | ND | Pass |
| Imazalil | 10 | 100 | 5.0 | ND | Pass |
| Imidacloprid | 10 | 3000 | 5.0 | ND | Pass |
| Kresoxim methyl | 10 | 1000 | 5.0 | ND | Pass |
| Malathion | 10 | 2000 | 5.0 | ND | Pass |

## Mycotoxins

**Pass**

**Date Prepared:** 01/30/2025 **Extracted By:** AJ
**Date Analyzed:** 01/30/2025 **Analyzed By:** AJ
**Lab Batch:** B25A016

**Specimen Prep:** 1.0064 g / 10 mL
**Instrument:** LCMSMS
**Analysis Method:** ACCU LAB SOP18

| Analyte | DIL | Action Limit ppb | LOQ ppb | Results ppb | Status |
|---|---|---|---|---|---|
| Aflatoxin B1 | 10 | 20 | 0.99 | ND | Pass |
| Aflatoxin B2 | 10 | 20 | 0.99 | ND | Pass |
| Aflatoxin G1 | 10 | 20 | 0.99 | ND | Pass |
| Aflatoxin G2 | 10 | 20 | 0.99 | ND | Pass |
| Ochratoxin A | 10 | 20 | 0.99 | ND | Pass |

**Definitions and Abbreviations:**
**LOQ** = Limit of Quantitation, **DIL** = Dilution Factor, **ppb** = Parts per Billion, **(ND) =** Non-Detect.

## NO6237- Rare Cannabinoids 500mg CBG Defense Tincture

**Lab Number:** F501412-01 **- Date reported:** February 06, 2025

## Heavy Metals

**Pass**

**Date Prepared:** 02/03/2025 **Extracted By:** TL **Specimen Prep:** 0.5 g / 25 mL
**Date Analyzed:** 02/04/2025 **Analyzed By:** JG **Instrument:** ICPMS
**Lab Batch:** B25A066 **Analysis Method:** ACCU LAB SOP19

| Analyte | DIL | Action Limit ppb | LOQ ppb | Results ppb | Status |
|---|---|---|---|---|---|
| Arsenic | 1 | 1500 | 100 | ND | Pass |
| Cadmium | 1 | 500 | 100 | ND | Pass |
| Lead | 1 | 500 | 100 | ND | Pass |
| Mercury | 1 | 3000 | 100 | ND | Pass |

**Definitions and Abbreviations:**
**LOQ** = Limit of Quantitation, **DIL** = Dilution Factor, **(ppb)** = Parts per Billion, **(ND) =** Non-Detect.

## Total Contaminant Load

| Total Contaminant Load | Action Limit ppb | Results ppb | Status |
|---|---|---|---|
| Total Contaminant Load - Heavy Metals | 30,000 | ND | Pass |
| Total Contaminant Load - Overall Sum | 30,000 | ND | Pass |
| Total Contaminant Load - Pesticides | 30,000 | ND | Pass |

## NO6237- Rare Cannabinoids 500mg CBG Defense Tincture

**Lab Number:** F501412-01 **- Date reported:** February 06, 2025

**Definitions and Abbreviations:**
**(ppb)** = Parts per Billion, **Total Contaminant Load (TCL)** - The sum of all Heavy Metals and Agricultural Agents present above the LOQ, but below the Acceptable Limit.

## Microbials

**Pass**

**Date Prepared:** 01/31/2025 **Prep ID:** ES **Specimen Prep:** 1 g / 1 g
**Date Analyzed:** 02/04/2025 **Analyst ID:** ES **Instrument:** QPCR/Plate
**Lab Batch:** B25A065 **Analysis Method:** ACCU LAB SOP14

| Analyte | Action Limit cfu/g | LOQ cfu/g | Results cfu/g | Status |
|---|---|---|---|---|
| Aspergillus Flavus | 1 | 1.00 | ND | Pass |
| Aspergillus Fumigatus | 1 | 1.00 | ND | Pass |
| Aspergillus Niger | 1 | 1.00 | ND | Pass |
| Aspergillus Terreus | 1 | 1.00 | ND | Pass |
| E. coli specific gene | 1 | 1.00 | ND | Pass |
| E. coli/shigella spp. | 1 | 1.00 | ND | Pass |
| Salmonella specific gene | 1 | 1.00 | ND | Pass |
| Stx1 gene | 1 | 1.00 | ND | Pass |
| Stx2 gene | 1 | 1.00 | ND | Pass |

**Date Prepared:** 01/31/2025 **Prep ID:** ES **Specimen Prep:** 1 g / 1 g
**Date Analyzed:** 02/03/2025 **Analyst ID:** ES **Instrument:** QPCR/Plate
**Lab Batch:** B25A064 **Analysis Method:** ACCU LAB SOP14

| Analyte | Action Limit cfu/g | LOQ cfu/g | Results cfu/g | Status |
|---|---|---|---|---|
| Total Yeast and Mold | 100000 | 10000 | ND | Pass |

**Definitions and Abbreviations:**
**LOQ** = Limit of Quantitation, **(cfu/g)** = Colony Forming Unit per Gram, **(ND) =** Non-Detect.

## NO6237- Rare Cannabinoids 500mg CBG Defense Tincture

**Lab Number:** F501412-01 **- Date reported:** February 06, 2025

## Residual Solvents

**PASS**

**Date Prepared:** 02/19/2025 **Prep ID:** DH **Specimen Prep:** 0.1132 g / 1 mL
**Date Analyzed:** 02/20/2025 **Analyst ID:** DH **Instrument:** Headspace GC-FID
**Lab Batch:** B25A011 **Analysis Method:** ACCU LAB SOP16

| Analyte | DIL | Action Limit ppm | LOQ ppm | Results ppm | Status |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1 | 8 | 1.7 | ND | Pass |
| 1,2-Dichloroethane | 1 | 2 | 1.7 | ND | Pass |
| **2-Propanol (IPA)** | 1 | 500 | 17 | **58** | Pass |
| Acetone | 1 | 750 | 17 | ND | Pass |
| Acetonitrile | 1 | 60 | 17 | ND | Pass |
| Benzene | 1 | 1 | 0.17 | ND | Pass |
| Butane | 1 | 5000 | 8.5 | ND | Pass |
| Chloroform | 1 | 2 | 1.7 | ND | Pass |
| Ethanol | 1 | 5000 | 17 | ND | Pass |
| Ethyl acetate | 1 | 400 | 1.7 | ND | Pass |
| Ethyl ether | 1 | 500 | 1.7 | ND | Pass |
| Ethylene oxide | 1 | 5 | 1.7 | ND | Pass |
| Methanol | 1 | 250 | 17 | ND | Pass |
| Methylene chloride | 1 | 125 | 1.7 | ND | Pass |
| **n-Heptane** | 1 | 5000 | 1.7 | **6.1** | Pass |
| n-Hexane | 1 | 250 | 0.34 | ND | Pass |
| Pentane | 1 | 750 | 0.56 | ND | Pass |
| Propane | 1 | 5000 | 17 | ND | Pass |
| Toluene | 1 | 150 | 1.7 | ND | Pass |
| Total xylenes | 1 | 150 | 4.2 | ND | Pass |
| Trichloroethene | 1 | 25 | 1.7 | ND | Pass |

**Definitions and Abbreviations:**
**LOQ** = Limit of Quantitation, **DIL** = Dilution Factor **(ppm)** = Parts per Million, **(ND) =** Non-Detect.

## NO6237- Rare Cannabinoids 500mg CBG Defense Tincture

**Lab Number:** F501412-01 **- Date reported:** February 06, 2025

## Water Activity

**Pass**

**Date Prepared:** 02/03/2025
**Date Analyzed:** 02/03/2025
**Lab Batch:** B25A073
**Prep ID**: WM
**Analyst ID:** WM
**Specimen Prep:** 0.5 g / 0.5 g
**Instrument:** Rotronic Water Activity Probe
**Analysis Method:** ACCU LAB SOP10

| Analyte | Action Limit $A_w$ | Result $A_w$ | Status |
|---|---|---|---|
| Water Activity | 0.85 | 0.45 | Pass |

## Foreign Materials

**Pass**

**Date Prepared:** 01/31/2025
**Date Analyzed:** 02/03/2025
**Lab Batch:** B25A073
**Prep ID:** WM
**Analyst ID:** WM
**Specimen Prep:** 0.5 g / 0.5 g
**Instrument:** Visual Inspection
**Analysis Method:** ACCU LAB SOP04

| Analyte | Action Limit (% by wt | Results | Status |
|---|---|---|---|
| Foreign Material | 1% | Pass | Pass |