



Certificate of Analysis

Powered by Confident Cannabis

Rare Cannabinoid Company

PO Box 61242
Honolulu, HI, 96839
info@rarecannabinoidco.com
(808) 762

Sample: 2204DBL0035.2156.R2

METRC Sample:
Batch #: 4429
Lot #: BFG-000014-220325

Strain: Rare Cannabinoid Full Spectrum CBD:CBG Blend

Ordered: 04/06/2022; Sampled: 04/07/2022; Completed: 05/26/2022; Analyzed: 04/11/2022

Rare Cannabinoids Company - Defense FS CBD/CBG Tincture

Ingestible, Tincture, Other



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

Terpenes

Analyzed by 300.13 GC/FID and GC/MS



213.337 mg/unit
Total Terpenes

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
δ-Limonene	2.319	187.897	6.628	
β-Pinene	2.319	12.216	0.431	
γ-Terpinene	2.319	9.069	0.320	
β-Myrcene	2.319	4.156	0.147	
α-Bisabolol	2.319	<LOQ	<LOQ	
α-Humulene	2.319	<LOQ	<LOQ	
α-Pinene	2.319	<LOQ	<LOQ	
α-Terpinene	2.319	<LOQ	<LOQ	
β-Caryophyllene	2.319	<LOQ	<LOQ	
Camphene	2.319	<LOQ	<LOQ	
Caryophyllene Oxide	2.319	<LOQ	<LOQ	
cis-Nerolidol	1.507	<LOQ	<LOQ	
cis-Ocimene	1.507	<LOQ	<LOQ	
δ-3-Carene	2.319	<LOQ	<LOQ	
Eucalyptol	2.319	<LOQ	<LOQ	
Geraniol	2.319	<LOQ	<LOQ	
Guaiol	2.319	<LOQ	<LOQ	
Isopulegol	2.319	<LOQ	<LOQ	
Linalool	2.319	<LOQ	<LOQ	
p-Cymene	2.319	<LOQ	<LOQ	
Terpinolene	2.319	<LOQ	<LOQ	
trans-Nerolidol	0.812	<LOQ	<LOQ	
trans-Ocimene	0.812	<LOQ	<LOQ	

Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA

5.829 mg/unit
Δ9-THC + Δ8-THC

284.704 mg/unit
CBD

567.122 mg/unit
Total Cannabinoids

Not Tested
pH: NT
Aw: NT

Not Tested
Homogeneity

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
CBC	1.391	6.155	0.217	
CBCa	1.391	<LOQ	<LOQ	
CBD	1.391	284.704	10.042	
CBDa	1.391	<LOQ	<LOQ	
CBDV	1.391	2.532	0.089	
CBDVa	1.391	<LOQ	<LOQ	
CBG	1.391	267.902	9.450	
CBGa	1.391	<LOQ	<LOQ	
CBL	1.391	<LOQ	<LOQ	
CBN	1.391	<LOQ	<LOQ	
Δ8-THC	1.391	<LOQ	<LOQ	
Δ9-THC	1.391	5.829	0.206	
THCa	1.391	<LOQ	<LOQ	
THCV	1.391	<LOQ	<LOQ	
THCVa	1.391	<LOQ	<LOQ	

1 Unit = Rare Cannabinoids Company - Defense FS CBD/CBG Tincture, 28.35g
Total THC = 0.877 x THC-A + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD



Notes: Updated metals.



Benjamin G.M. Chew, Ph.D.
Benjamin G.M. Chew, Ph.D.
Laboratory Director

Glen Marquez
Glen Marquez
Quality Control

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Rare Cannabinoids Company - Defense FS CBD/CG Tincture

Ingestible, Tincture, Other



Pesticides

Analyzed by 300.9 LC/MS/MS and GC/MS/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	10	0	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	400	<LOQ	Pass
Bifenthrin	10	0	<LOQ	Pass
Cyfluthrin	10	2000	<LOQ	Pass
Cypermethrin	10	0	<LOQ	Pass
Daminozide	10	0	<LOQ	Pass
Dimethomorph	10	2000	<LOQ	Pass
Etoazole	10	400	<LOQ	Pass
Fenhexamid	10	1000	<LOQ	Pass
Flonicamid	10	1000	<LOQ	Pass
Fludioxonil	10	500	<LOQ	Pass
Imidacloprid	10	500	<LOQ	Pass
Myclobutanil	10	400	<LOQ	Pass
Paclbutrazol	10	0	<LOQ	Pass
Piperonyl Butoxide	10	3000	<LOQ	Pass
Pyrethrins	10	2000	<LOQ	Pass
Quintozene	10	800	<LOQ	Pass
Spinetoram	10	1000	<LOQ	Pass
Spinosad	10	1000	<LOQ	Pass
Spirotetramat	10	1000	<LOQ	Pass
Thiamethoxam	10	400	<LOQ	Pass
Trifloxystrobin	10	1000	<LOQ	Pass
Plant Growth Regulators	10	50	<LOQ	Pass

Microbials

Analyzed by 300.1 Plating/QPCR

Pass

Quantitative Analysis	LOQ	Limit	Mass	Status
	CFU/g	CFU/g	CFU/g	
Aerobic Bacteria	900	100000	<LOQ	Pass
Bile-Tolerant Gram-Negative Bacteria	90	1000	<LOQ	Pass

Qualitative Analysis	Detected or Not Detected	Status
E. Coli	Not Detected	Pass
Salmonella	Not Detected	Pass

Mycotoxins

Analyzed by 300.2 Elisa

Pass

Mycotoxin	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Aflatoxins	4.0	20.0	<LOQ	Pass
Ochratoxin A	2.0	20.0	3.4	Pass

Heavy Metals

Analyzed by 300.8 ICP/MS

Pass

Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	59	2000	<LOQ	Pass
Cadmium	59	820	<LOQ	Pass
Lead	59	1200	<LOQ	Pass
Mercury	59	400	<LOQ	Pass

Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	52	500	<LOQ	Pass
Ethanol	52		<LOQ	Tested
Heptanes	52	500	<LOQ	Pass
Propane	52	500	<LOQ	Pass



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