

Hemp Quality Assurance Testing **CERTIFICATE OF ANALYSIS**

DATE ISSUED 02/13/2021

SAMPLE NAME: CBG CRYSTAL

Concentrate, Product Inhalable

CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

DISTRIBUTOR / TESTED FOR

Business Name: Bardo License Number: Address:

SAMPLE DETAIL

Batch Number: CBG-SPD-B1/2-01 Sample ID: 210210W012

Date Collected: 02/10/2021 Date Received: 02/10/2021 Batch Size: Sample Size: 1.0 units Unit Mass: 10 grams per Unit Serving Size:





Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 1.598% Total CBD: 1.825% Sum of Cannabinoids: 89.871% Total Cannabinoids: 89.871%

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 = Δ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = Δ 9THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN Total Cannabinoids = (Δ9THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + ∆8THC + CBL + CBN

Moisture: NT Density: NT Viscosity: NT

SAFETY ANALYSIS - SUMMARY

∆9THC per Unit: ⊘PASS

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

Pesticides: **PASS**

Mycotoxins: NT

Residual Solvents: **OPASS**

Heavy Metals: **PASS**

Microbial Impurities (PCR): OPASS

Microbial Impurities (Plating): NT

For quality assurance purposes. Not a Pre-Harvest 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 16 Effect Date January 16, 2019. Authority: Section 26013, 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)

w-H KJON LQC verified by: Jackson Waite-Himm Date: 02/13/2021 elwrigApproved by: Josh Wurzer, President Date: 02/13/2021

SC Laboratories, LLC. 100 Pioneer Street, Suite E, Santa Cruz, CA 95060 | 866-435-0709 | sclabs.com | C8-0000013-LIC | ISO/IES 17025 : 2017 Accredited PJLA Accreditation Number 87168 © 2021 SC Labs all rights reserved. Trademarks referenced are trademarks of either SC Labs or their respective owners. MKT0003 REV6 12/20 CoA ID: 210210W012-001 Page 1 of 6

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBG CRYSTAL | DATE ISSUED 02/13/2021



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

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

TOTAL THC: 1.598%

Total THC (∆9THC+0.877*THCa)

TOTAL CBD: 1.825%

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 89.871%

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ 8THC + CBL + CBN

TOTAL CBG: 85.328%

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 1.0% Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: ND

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 02/13/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBG	0.06/0.19	±33.619	853.28	85.328
CBD	0.07/0.29	±0.845	18.25	1.825
Δ9ΤΗC	0.06 / 0.26	±0.550	15.98	1.598
CBC	0.2/0.5	±0.29	10.0	1.00
CBN	0.1/0.3	±0.08	1.2	0.12
∆8THC	0.1/0.4	N/A	ND	ND
THCa	0.05/0.14	N/A	ND	ND
THCV	0.1/0.2	N/A	ND	ND
THCVa	0.07/0.20	N/A	ND	ND
CBDa	0.02/0.19	N/A	ND	ND
CBDV	0.04 / 0.15	N/A	ND	ND
CBDVa	0.03/0.53	N/A	ND	ND
CBGa	0.1/0.2	N/A	ND	ND
CBL	0.06 / 0.24	N/A	ND	ND
CBCa	0.07/0.28	N/A	ND	ND
SUM OF CANNA	BINOIDS		898.71 mg/g	89.871%

Unit Mass: 10 grams per Unit

Δ9THC per Unit	1120 per-package limit	159.80 mg/unit	PASS
Total THC per Unit		159.80 mg/unit	
CBD per Unit		182.50 mg/unit	
Total CBD per Unit		182.50 mg/unit	
Sum of Cannabinoids per Unit		8987.10 mg/unit	
Total Cannabinoids per Unit		8987.10 mg/unit	

MOISTURE TEST RESULT

DENSITY TEST RESULT

VISCOSITY TEST RESULT

Not Tested

Not Tested

Not Tested



SC Laboratories, LLC. 100 Pioneer Street, Suite E, Santa Cruz, CA 95060 | 866-435-0709 | sclabs.com | C8-0000013-LIC | ISO/IES 17025 : 2017 Accredited PJLA Accreditation Number 87168 © 2021 SC Labs all rights reserved. Trademarks referenced are trademarks of either SC Labs or their respective owners. MKT0003 REV6 12/20 CoA ID: 210210W012-001 Page 2 of 6

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBG CRYSTAL | DATE ISSUED 02/13/2021

Pesticide Analysis

CATEGORY 1 AND 2 PESTICIDES

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

CATEGORY 1 PESTICIDE TEST RESULTS - 02/12/2021 OPASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	[.] MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Aldicarb				NT	
Carbofuran				NT	
Chlordane*				NT	
Chlorfenapyr*				NT	
Chlorpyrifos	0.02/0.06	≥LOD	N/A	ND	PASS
Coumaphos				NT	
Daminozide				NT	
DDVP (Dichlorvos)				NT	
Dimethoate				NT	
Ethoprop(hos)				NT	
Etofenprox				NT	
Fenoxycarb				NT	
Fipronil				NT	
Imazalil				NT	
Methiocarb				NT	
Methyl parathion				NT	
Mevinphos				NT	
Paclobutrazol				NT	
Propoxur				NT	
Spiroxamine			TM	NT	
Thiacloprid				NT	

CATEGORY 2 PESTICIDE TEST RESULTS - 02/12/2021 OPASS

Abamectin	0.03/0.10	0.1	N/A	ND	PASS
Acephate				NT	
Acequinocyl				NT	
Acetamiprid				NT	
Azoxystrobin	0.01/0.04	0.1	N/A	ND	PASS
Bifenazate	0.01/0.02	0.1	N/A	ND	PASS
Bifenthrin	0.01/0.02	3	N/A	ND	PASS
Boscalid	0.02/0.06	0.1	N/A	ND	PASS
Captan				NT	
Carbaryl				NT	
Chlorantraniliprole				NT	

Continued on next page



SC Laboratories, LLC. 100 Pioneer Street, Suite E, Santa Cruz, CA 95060 | 866-435-0709 | sclabs.com | C8-0000013-LIC | ISO/IES 17025 : 2017 Accredited PJLA Accreditation Number 87168 © 2021 SC Labs all rights reserved. Trademarks referenced are trademarks of either SC Labs or their respective owners. MKT0003 REV6 12/20 CoA ID: 210210W012-001 Page 3 of 6

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBG CRYSTAL | DATE ISSUED 02/13/2021





CATEGORY 1 AND 2 PESTICIDES

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

CATEGORY 2 PESTICIDE TEST RESULTS - 02/12/2021 continued

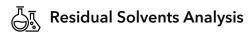
COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Clofentezine				NT	
Cyfluthrin				NT	
Cypermethrin	0.1/0.3	1	N/A	ND	PASS
Diazinon				NT	
Dimethomorph				NT	
Etoxazole	0.010/0.028	0.1	N/A	ND	PASS
Fenhexamid				NT	
Fenpyroximate				NT	
Flonicamid				NT	
Fludioxonil				NT	
Hexythiazox	0.01/0.04	0.1	N/A	ND	PASS
Imidacloprid	0.01/0.04	5	N/A	ND	PASS
Kresoxim-methyl				NT	
Malathion	0.02/0.05	0.5	N/A	ND	PASS
Metalaxyl				NT	
Methomyl				NT	
Myclobutanil	0.03/0.1	0.1	N/A	ND	PASS
Naled				NT	
Oxamyl				NT	
Pentachloronitrobenzene*			MT	NT	
Permethrin	0.03/0.09	0.5	N/A	ND	PASS
Phosmet				NT	
Piperonylbutoxide	0.003/0.009	3	±0.0031	0.072	PASS
Prallethrin				NT	
Propiconazole	0.01/0.03	0.1	N/A	ND	PASS
Pyrethrins				NT	
Pyridaben				NT	
Spinetoram				NT	
Spinosad				NT	
Spiromesifen	0.02/0.05	0.1	N/A	ND	PASS
Spirotetramat				NT	
Tebuconazole	0.02/0.07	0.1	N/A	ND	PASS
Thiamethoxam				NT	
Trifloxystrobin	0.01/0.03	0.1	N/A	ND	PASS



SC Laboratories, LLC. 100 Pioneer Street, Suite E, Santa Cruz, CA 95060 | 866-435-0709 | sclabs.com | C8-0000013-LIC | ISO/IES 17025 : 2017 Accredited PJLA Accreditation Number 87168 © 2021 SC Labs all rights reserved. Trademarks referenced are trademarks of either SC Labs or their respective owners. MKT0003 REV6 12/20 CoA ID: 210210W012-001 Page 4 of 6

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBG CRYSTAL | DATE ISSUED 02/13/2021



CATEGORY 1 AND 2 RESIDUAL SOLVENTS Residual Solvent analysis utilizing gas

chromatography-mass spectrometry (GC-MS).

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

CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 02/12/2021 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Benzene	0.03/0.09	1	N/A	ND	PASS
Chloroform	0.1/0.2	1	N/A	ND	PASS
Ethylene Oxide	0.3/0.8	1	N/A	ND	PASS
Methylene chloride	0.3/0.9	1	N/A	ND	PASS
Trichloroethylene	0.1/0.3	1	N/A	ND	PASS

CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 02/12/2021 OPASS

Acetone	20/50	5000	N/A	<loq< th=""><th>PASS</th></loq<>	PASS
Acetonitrile	2/7	410	N/A	ND	PASS
Butane	10/50	5000	N/A	ND	PASS
Ethanol	20/50	5000	N/A	ND	PASS
Ethyl acetate	20/60	5000	N/A	ND	PASS
Ethyl ether	20/50	5000	N/A	ND	PASS
Heptane	20/60	5000	N/A	ND	PASS
Hexane	2/5	290	N/A	ND	PASS
Isopropyl Alcohol	10/40	5000	N/A	ND	PASS
Methanol	50 / 200	3000	N/A	ND	PASS
Pentane	20/50	5000	N/A	ND	PASS
Propane	10/20	5000	N/A	ND	PASS
Toluene	7/21	890	N/A	ND	PASS
Total Xylenes	50/160	2170	N/A	ND	PASS

HEAVY METALS TEST RESULTS - 02/11/2021 🔗 PASS

cc	OMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Ca	dmium	0.02/0.05	0.2	N/A	ND	PASS
Lea	ad	0.04/0.1	0.5	N/A	ND	PASS
Ars	senic	0.02/0.1	0.2	N/A	ND	PASS
Me	ercury	0.002/0.01	0.1	N/A	ND	PASS



Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

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



SC Laboratories, LLC. 100 Pioneer Street, Suite E, Santa Cruz, CA 95060 | 866-435-0709 | sclabs.com | C8-0000013-LIC | ISO/IES 17025 : 2017 Accredited PJLA Accreditation Number 87168 © 2021 SC Labs all rights reserved. Trademarks referenced are trademarks of either SC Labs or their respective owners. MKT0003 REV6 12/20 CoA ID: 210210W012-001 Page 5 of 6

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBG CRYSTAL | DATE ISSUED 02/13/2021



Microbial Impurities Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

Method: QSP 1221 - Analysis of Microbial Impurities

MICROBIAL IMPURITIES TEST RESULTS (PCR) - 02/12/2021 OPASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing Escherichia coli	Detect	ND	PASS
Salmonella spp.	Detect	ND	PASS
Aspergillus fumigatus		NT	
Aspergillus flavus		NT	
Aspergillus niger		NT	
Aspergillus terreus		NT	

MICROBIAL IMPURITIES TEST RESULTS (PLATING)

COMPOUND	RESULT (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

Analysis conducted by 3M[™] Petrifilm[™] and plate counts of microbial impurities.

Method: QSP 6794 - Plating with 3M[™] Petrifilm[™]

