



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 21-002891/D02.R00
Report Date: 03/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 03/18/21 11:43

Customer: GNH
Product identity: CBG Isolate 0200005
Client/Metric ID: .
Laboratory ID: 21-002891-0001

CBG ISOLATE

Sample Date: 03/17/21 18:30



Summary

Potency:

Analyte	Result (%)		
CBG [†]	> 98.0		CBD-Total <LOQ
			THC-Total <LOQ
			(Reported in percent of total sample)



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 21-002891/D02.R00
Report Date: 03/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 03/18/21 11:43



Customer: GNH

Product identity: CBG Isolate 0200005
Client/Metric ID:
Sample Date: 03/17/21 18:30
Laboratory ID: 21-002891-0001
Evidence of Cooling: No
Temp: 19.4 °C

CBG ISOLATE



Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2102555	Analyze: 3/22/21 8:16:00 PM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0943			
CBC-A†	< LOQ		0.0943			
CBC-Total†	< LOQ		0.177			
CBD	< LOQ		0.0943			
CBD-A	< LOQ		0.0943			
CBD-Total	< LOQ		0.177			
CBDV†	< LOQ		0.0943			
CBDV-A†	< LOQ		0.0943			
CBDV-Total†	< LOQ		0.176			
CBG†	> 98.0		0.943			
CBG-A†	< LOQ		0.0943			
CBG-Total	> 98.0		1.02			
CBL†	< LOQ		0.0943			
CBN	< LOQ		0.0943			
Δ8-THC†	< LOQ		0.0943			
Δ9-THC	< LOQ		0.0943			
THC-A	< LOQ		0.0943			
THC-Total	< LOQ		0.177			
THCV†	< LOQ		0.0943			
THCV-A†	< LOQ		0.0943			
THCV-Total†	< LOQ		0.176			



CBG Isolate

CBG ISOLATE

Sample ID: 2103CSALA4969.2482

Matrix: Other

Type: Other

Sample Size: 1 units

Batch Size:

Batch#: 0200005

Produced: 03/17/2021

Collected: 03/18/2021

Received: 03/18/2021

Completed: 03/23/2021

Client

GNH

Lic. #

Denver, CO 80229

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.1582	0.9889	1	ND	Pass
Acetone	17.1677	49.4462	5000	<LOQ	Pass
Acetonitrile	1.3449	49.4462	410	<LOQ	Pass
Benzene	0.1978	0.9889	1	ND	Pass
Butane	0.1978	49.4462	5000	ND	Pass
Chloroform	0.3165	0.9889	1	ND	Pass
Ethanol	2.1756	49.4462	5000	<LOQ	Pass
Ethyl acetate	0.2373	49.4462	5000	ND	Pass
Ethylene Oxide	0.1582	0.9889	1	ND	Pass
Ethyl ether	0.2373	49.4462	5000	ND	Pass
Heptane	0.1582	49.4462	5000	ND	Pass
Isopropyl alcohol	9.375	49.4462	5000	<LOQ	Pass
Methanol	32.8323	49.4462	3000	ND	Pass
Methylene chloride	0.1187	0.9889	1	ND	Pass
Hexane	0.2373	49.4462	290	<LOQ	Pass
Pentane	0.1582	49.4462	5000	213.7	Pass
Propane	6.8038	49.4462	5000	ND	Pass
Toluene	0.1582	49.4462	890	ND	Pass
Trichloroethylene	0.1978	0.9889	1	ND	Pass
Total xylenes	0.4747	148.3386	2170	ND	Pass

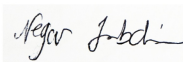
Date Tested: 03/22/2021

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


 ISO / IEC 17025:2017 ACCREDITED
 LABORATORY
 Accreditation No. 73653



 Neya Jourabchian
 Laboratory Director
 03/23/2021



 Mikaela Gutierrez
 COA Review
 03/23/2021

CBG ISOLATE

CBG Isolate

Batch ID:	0200005	Test ID:	T000130339
Type:	Concentrate	Submitted:	03/18/2021 @ 09:11 AM
Test:	Metals	Started:	3/19/2021
Method:	TM19	Reported:	3/22/2021



HEAVY METALS


Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.063 - 6.34	ND
Cadmium	0.063 - 6.31	ND
Mercury	0.061 - 6.14	ND
Lead	0.068 - 6.80	ND

* ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL


Ryan Weems
22-Mar-2021
4:04 PM

PREPARED BY / DATE


Ben Minton
22-Mar-2021
4:21 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

CBG ISOLATE

CBG Isolate

Batch ID:	0200005	Test ID:	T000130337
Type:	Concentrate	Submitted:	03/18/2021 @ 09:11 AM
Test:	Pesticides	Started:	3/18/2021
Method:	TM17	Reported:	3/19/2021


PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	43 - 2499	ND*	Malathion	292 - 2499	ND*
Acetamiprid	42 - 2499	ND*	Metalaxyl	42 - 2499	ND*
Abamectin	>340	ND*	Methiocarb	39 - 2499	ND*
Azoxystrobin	44 - 2499	ND*	Methomyl	41 - 2499	ND*
Bifenazate	41 - 2499	ND*	MGK 264 1	162 - 2499	ND*
Boscalid	40 - 2499	ND*	MGK 264 2	111 - 2499	ND*
Carbaryl	39 - 2499	ND*	Myclobutanil	47 - 2499	ND*
Carbofuran	42 - 2499	ND*	Naled	40 - 2499	ND*
Chlorantraniliprole	45 - 2499	ND*	Oxamyl	39 - 2499	ND*
Chlorpyrifos	27 - 2499	ND*	Paclobutrazol	41 - 2499	ND*
Clofentezine	276 - 2499	ND*	Permethrin	314 - 2499	ND*
Diazinon	298 - 2499	ND*	Phosmet	43 - 2499	ND*
Dichlorvos	>267	ND*	Prophos	296 - 2499	ND*
Dimethoate	41 - 2499	ND*	Propoxur	40 - 2499	ND*
E-Fenpyroximate	277 - 2499	ND*	Pyridaben	293 - 2499	ND*
Etofenprox	38 - 2499	ND*	Spinosad A	29 - 2499	ND*
Etoxazole	297 - 2499	ND*	Spinosad D	75 - 2499	ND*
Fenoxycarb	>56	ND*	Spiromesifen	>290	ND*
Fipronil	38 - 2499	ND*	Spirotetramat	>276	ND*
Flonicamid	46 - 2499	ND*	Spiroxamine 1	17 - 2499	ND*
Fludioxonil	>301	ND*	Spiroxamine 2	22 - 2499	ND*
Hexythiazox	42 - 2499	ND*	Tebuconazole	289 - 2499	ND*
Imazalil	293 - 2499	ND*	Thiacloprid	42 - 2499	ND*
Imidacloprid	43 - 2499	ND*	Thiamethoxam	43 - 2499	ND*
Kresoxim-methyl	43 - 2499	ND*	Trifloxystrobin	41 - 2499	ND*

* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL


Tyler Wiese
 19-Mar-2021
 1:45 PM



Scott Hansen
 19-Mar-2021
 4:24 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

CBG ISOLATE

CBG Isolate

Batch ID:	0200005	Test ID:	T000130338
Type:	Concentrate	Submitted:	03/18/2021 @ 09:11 AM
Test:	Microbial Contaminants	Started:	3/18/2021
Method:	TM24, TM25, TM26, TM27, TM28	Reported:	3/21/2021

**MICROBIAL CONTAMINANTS**



Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	Absent
E. coli (STEC)	None Detected
Salmonella	None Detected

* CFU/g = Colony Forming Unit per Gram

** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: $10^2 = 100$ CFU
 $10^3 = 1,000$ CFU
 $10^4 = 10,000$ CFU
 $10^5 = 100,000$ CFU

NOTES:

Free from visual mold, mildew, and foreign matter
TYM: None Detected
Total Aerobic: None Detected
Coliforms: None Detected**FINAL APPROVAL**
Tori King
21-Mar-2021
1:41 PM
Scott Hansen
21-Mar-2021
7:51 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03