



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



Report Number: 21-006705/D002.R001
Report Date: 07/06/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/16/21 10:21

This is an amended version of report# 21-006705/D002.R00.
 Reason: Updated batch number.

Customer: GVB Biopharma
Product identity: Cool - Relief Balm
Client/Metric ID: B: 061021-001
Laboratory ID: 21-006705-0002

Sample Date: 06/15/21 12:00

Summary

Potency:

Analyte	Result (%)								
CBD	0.825								
CBT [†]	0.0106								
CBE [†]	0.00830								
CBDV [†]	0.00446								
			<table border="1"> <tr> <td>CBD-Total</td> <td>0.825%</td> </tr> <tr> <td>THC-Total</td> <td><LOQ</td> </tr> <tr> <td colspan="2">(Reported in percent of total sample)</td> </tr> </table>	CBD-Total	0.825%	THC-Total	<LOQ	(Reported in percent of total sample)	
CBD-Total	0.825%								
THC-Total	<LOQ								
(Reported in percent of total sample)									

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
Menthol [†]	1.99	35.10%	Eucalyptol [†]	1.68	29.63%
p-Cymene [†]	0.592	10.44%	(R)-(+)-Limonene [†]	0.481	8.48%
a-Terpinene [†]	0.268	4.73%	a-pinene [†]	0.170	3.00%
(±)-Camphor [†]	0.157	2.77%	β-Caryophyllene [†]	0.103	1.82%
a-phellandrene [†]	0.0635	1.12%	Camphene [†]	0.0610	1.08%
β-Myrcene [†]	0.0363	0.64%	(-)-β-Pinene [†]	0.0358	0.63%
Linalool [†]	0.0356	0.63%	Total Terpenes[†]	5.67	100.00%

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: GVB Biopharma
 4456 E. Graig Rd
 Las Vegas Nevada 89115
 United States of America (USA)

Product identity: Cool - Relief Balm
Client/Metric ID: B: 061021-001
Sample Date: 06/15/21 12:00
Laboratory ID: 21-006705-0002
Evidence of Cooling: No
Temp: 21.3 °C

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2105426	Analyze: 6/18/21 1:23:00 PM		
Analyte	As Received	Dry weight	LOQ	Notes				
CBC	< LOQ		0.0033		<ul style="list-style-type: none"> ● CBD ● CBT ● CBE ● CBDV 			
CBC-A†	< LOQ		0.0033					
CBC-Total†	< LOQ		0.0061					
CBD	0.825		0.0033					
CBD-A	< LOQ		0.0033					
CBD-Total	0.825		0.0061					
CBDV†	0.00446		0.0033					
CBDV-A†	< LOQ		0.0033					
CBDV-Total†	< LOQ		0.0061					
CBE†	0.00830		0.0033					
CBG†	< LOQ		0.0033					
CBG-A†	< LOQ		0.0033					
CBG-Total	< LOQ		0.0061					
CBL†	< LOQ		0.0033					
CBL-A†	< LOQ		0.0033					
CBL-Total†	< LOQ		0.0061					
CBN	< LOQ		0.0033					
CBT†	0.0106		0.0033					
Δ8-THC†	< LOQ		0.0033					
Δ8-THCV	< LOQ		0.0033					
Δ9-THC	< LOQ		0.0033					
THC-A	< LOQ		0.0033					
THC-Total	< LOQ		0.0061					
THCV†	< LOQ		0.0033					
THCV-A†	< LOQ		0.0033					
THCV-Total†	< LOQ		0.0061					
Total Cannabinoids†	0.848							



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2105341	06/19/21	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2105341	06/19/21	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2105342	06/19/21	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2105342	06/19/21	AOAC 2014.05 (RAPID)	X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2105348 Analyze 06/17/21 09:16 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass	
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass	
Methylpropane	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass	
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass	
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl	< LOQ	2170	600	pass	



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2105400 Analyze 06/18/21 10:12 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

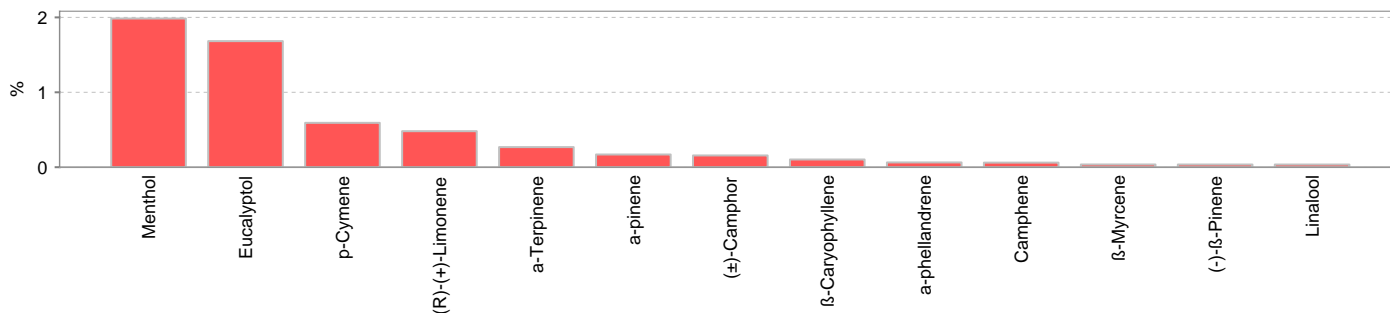


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2105420	Analyze 06/18/21 11:44 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
Menthol [†]	1.99	0.018	35.10%		Eucalyptol [†]	1.68	0.018	29.63%	
p-Cymene [†]	0.592	0.018	10.44%		(R)-(+)-Limonene [†]	0.481	0.018	8.48%	
a-Terpinene [†]	0.268	0.018	4.73%		a-pinene [†]	0.170	0.018	3.00%	
(±)-Camphor [†]	0.157	0.018	2.77%		β-Caryophyllene [†]	0.103	0.018	1.82%	
a-phellandrene [†]	0.0635	0.018	1.12%		Camphene [†]	0.0610	0.018	1.08%	
β-Myrcene [†]	0.0363	0.018	0.64%		(-)-β-Pinene [†]	0.0358	0.018	0.63%	
Linalool [†]	0.0356	0.018	0.63%		(-)-a-Terpineol [†]	< LOQ	0.018	0.00%	
Humulene [†]	< LOQ	0.018	0.00%		d-3-Carene [†]	< LOQ	0.018	0.00%	
(+)-Pulegone [†]	< LOQ	0.018	0.00%		farnesene [†]	< LOQ	0.018	0.00%	
gamma-Terpinene [†]	< LOQ	0.018	0.00%		Sabinene [†]	< LOQ	0.018	0.00%	
Terpinolene [†]	< LOQ	0.018	0.00%		trans-β-Ocimene [†]	< LOQ	0.012	0.00%	
nerol [†]	< LOQ	0.018	0.00%		Sabinene hydrate [†]	< LOQ	0.018	0.00%	
(+)-fenchol [†]	< LOQ	0.018	0.00%		(±)-fenchone [†]	< LOQ	0.018	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.018	0.00%		(-)-Guaiol [†]	< LOQ	0.018	0.00%	
(-)-Isopulegol [†]	< LOQ	0.018	0.00%		(+)-Borneol [†]	< LOQ	0.018	0.00%	
(+)-Cedrol [†]	< LOQ	0.018	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.018	0.00%	
(±)-trans-Nerolidol [†]	< LOQ	0.018	0.00%		a-Bisabolol [†]	< LOQ	0.018	0.00%	
a-cedrene [†]	< LOQ	0.018	0.00%		cis-β-Ocimene [†]	< LOQ	0.006	0.00%	
Geraniol [†]	< LOQ	0.018	0.00%		Geranyl acetate [†]	< LOQ	0.018	0.00%	
Isoborneol [†]	< LOQ	0.018	0.00%		valencene [†]	< LOQ	0.018	0.00%	
Total Terpenes	5.67								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0421	2105384	06/17/21	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0421	2105384	06/17/21	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0421	2105384	06/17/21	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0211	2105384	06/17/21	AOAC 2013.06 (mod.)	X	



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B2 [†]	< LOQ		µg/kg	5.00	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Aflatoxin B1 [†]	< LOQ		µg/kg	5.00	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Aflatoxin G1 [†]	< LOQ		µg/kg	5.00	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Aflatoxin G2 [†]	< LOQ		µg/kg	5.00	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Deoxynivalenol [†]	< LOQ		µg/kg	200	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Fumonisin B1 [†]	< LOQ		µg/kg	200	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Fumonisin B2 [†]	< LOQ		µg/kg	200	2105447	06/21/21	AOAC 2007.01 & EN 15662	
HT2-Toxin [†]	< LOQ		µg/kg	40.0	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Nivalenol [†]	< LOQ		µg/kg	400	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Ochratoxin A [†]	< LOQ		µg/kg	5.00	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Ochratoxin B [†]	< LOQ		µg/kg	2.00	2105447	06/21/21	AOAC 2007.01 & EN 15662	
T2-Toxin [†]	< LOQ		µg/kg	20.0	2105447	06/21/21	AOAC 2007.01 & EN 15662	
Zearalenone [†]	< LOQ		µg/kg	200	2105447	06/21/21	AOAC 2007.01 & EN 15662	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Moisture as loss on drying	9.90		g/100g	0.10	2105446	06/17/21	AOAC 925.10 (mod.)	X
Water Activity	0.350		Aw	0.030	2105449	06/18/21	AOAC 978.18	X



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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

% = Percentage of sample

Aw = Water Activity

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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Laboratory Quality Control Results

Residual Solvents		Batch ID: 2105348							
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	%Rec	Limits	Notes
Propane	ND	< 200		465	595	µg/g	78.2	70	- 130
Isobutane	ND	< 200		621	761	µg/g	81.6	70	- 130
Butane	ND	< 200		634	761	µg/g	83.3	70	- 130
2,2-Dimethylpropane	ND	< 200		756	955	µg/g	79.2	70	- 130
Methanol	ND	< 200		1400	1600	µg/g	87.5	70	- 130
Ethylene Oxide	ND	< 30		44.8	58.3	µg/g	76.8	70	- 130
2-Methylbutane	ND	< 200		1320	1600	µg/g	82.5	70	- 130
Hexane	ND	< 200		1350	1600	µg/g	84.4	70	- 130
Ethanol	ND	< 200		1410	1610	µg/g	87.6	70	- 130
Ethyl Ether	ND	< 200		1390	1600	µg/g	86.9	70	- 130
2,2-Dimethylbutane	ND	< 30		138	160	µg/g	86.3	70	- 130
Acetone	ND	< 200		1390	1600	µg/g	86.9	70	- 130
2-Propanol	ND	< 200		1430	1610	µg/g	88.8	70	- 130
Ethyl Formate	ND	< 500		1430	1610	µg/g	88.8	70	- 130
Acetonitrile	ND	< 100		413	481	µg/g	85.9	70	- 130
Methyl Acetate	ND	< 500		1640	1600	µg/g	102.5	70	- 130
2,3-Dimethylbutane	ND	< 30		139	164	µg/g	84.8	70	- 130
Dichloromethane	ND	< 60		421	490	µg/g	85.9	70	- 130
2-Methylpentane	ND	< 30		141	162	µg/g	87.0	70	- 130
MTBE	ND	< 500		1610	1610	µg/g	100.0	70	- 130
3-Methylpentane	ND	< 30		135	163	µg/g	82.8	70	- 130
Hexane	ND	< 30		126	163	µg/g	77.3	70	- 130
1-Propanol	ND	< 500		1690	1600	µg/g	105.6	70	- 130
Methyl ethyl ketone	ND	< 500		1690	1620	µg/g	104.3	70	- 130
Ethyl acetate	ND	< 200		1410	1600	µg/g	88.1	70	- 130
2-Butanol	ND	< 200		1330	1600	µg/g	83.1	70	- 130
Tetrahydrofuran	ND	< 100		397	485	µg/g	81.9	70	- 130
Cyclohexane	ND	< 200		1490	1610	µg/g	92.5	70	- 130
2-methyl-1-propanol	ND	< 500		1300	1610	µg/g	80.7	70	- 130
Benzene	ND	< 1		397	436	µg/g	91.1	70	- 130
Isopropyl Acetate	ND	< 200		1480	1610	µg/g	91.9	70	- 130
Heptane	ND	< 200		1350	1610	µg/g	83.9	70	- 130
1-Butanol	ND	< 500		1770	1610	µg/g	109.9	70	- 130
Propyl Acetate	ND	< 500		1610	1610	µg/g	100.0	70	- 130
1,4-Dioxane	ND	< 100		465	481	µg/g	96.7	70	- 130
2-Ethoxyethanol	ND	< 30		148	162	µg/g	91.4	70	- 130
Methylisobutylketone	ND	< 500		1510	1650	µg/g	91.5	70	- 130
3-Methyl-1-butanol	ND	< 500		1390	1610	µg/g	86.3	70	- 130
Ethylene Glycol	ND	< 200		398	484	µg/g	82.2	70	- 130
Toluene	ND	< 200		473	500	µg/g	94.6	70	- 130
Isobutyl Acetate	ND	< 500		1420	1610	µg/g	88.2	70	- 130
1-Pentanol	ND	< 500		1440	1610	µg/g	89.4	70	- 130
Butyl Acetate	ND	< 500		1420	1620	µg/g	87.7	70	- 130
Ethylbenzene	ND	< 200		962	971	µg/g	99.1	70	- 130
m,p-Xylene	ND	< 200		1020	966	µg/g	105.6	70	- 130
o-Xylene	ND	< 200		1040	967	µg/g	107.5	70	- 130
Cumene	ND	< 30		168	164	µg/g	102.4	70	- 130
Anisole	ND	< 500		1610	1620	µg/g	99.4	70	- 130
DMSD	ND	< 500		1350	1640	µg/g	82.3	70	- 130
1,2-dimethoxyethane	ND	< 50		162	164	µg/g	98.8	70	- 130
Trimethylamine	ND	< 500		1560	1600	µg/g	97.5	70	- 130
N,N-dimethylformamide	ND	< 150		527	518	µg/g	101.7	70	- 130
N,N-dimethylacetamide	ND	< 150		505	488	µg/g	103.5	70	- 130
Pyridine	ND	< 50		159	172	µg/g	92.4	70	- 130
Trichloroethylene	ND	< 1		1.09	1	µg/g	109.0	70	- 130
Chloroform	ND	< 1		1.04	1	µg/g	104.0	70	- 130
1,2-Dichloroethane	ND	< 1		1.05	1	µg/g	105.0	70	- 130