

## Topical Balm

 Sample ID: SA-230216-17101  
 Batch: 022302  
 Type: Finished Products  
 Matrix: Topical - Salve  
 Unit Mass (g): 113.398

 Received: 02/21/2023  
 Completed: 03/08/2023

**Client**

 Herbal Healers LLC  
 6073 Pidcock Creek Rd  
 New Hope, PA 18938  
 USA  
 Lic. #: 42-001142


## Summary

Test	Date Tested	Status
Cannabinoids	02/27/2023	Tested
Foreign Matter	02/27/2023	Tested
Heavy Metals	03/01/2023	Tested
Microbials	03/02/2023	Tested
Mycotoxins	03/07/2023	Tested
Pesticides	03/07/2023	Tested
Residual Solvents	03/08/2023	Tested
Terpenes	03/01/2023	Tested

<b>ND</b> Total Δ9-THC	<b>1.01 %</b> CBD	<b>1.09 %</b> Total Cannabinoids	<b>Not Tested</b> Moisture Content	<b>Not Detected</b> Foreign Matter	<b>Yes</b> Internal Standard Normalization
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## Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/unit)
CBC	0.00095	0.00284	ND	ND
CBCA	0.00181	0.00543	ND	ND
CBCV	0.0006	0.0018	ND	ND
CBD	0.00081	0.00242	1.01	1140
CBDA	0.00043	0.0013	ND	ND
CBDV	0.00061	0.00182	0.0152	17.2
CBDVA	0.00021	0.00063	ND	ND
CBG	0.00057	0.00172	ND	ND
CBGA	0.00049	0.00147	ND	ND
CBL	0.00112	0.00335	0.00524	5.94
CBLA	0.00124	0.00371	ND	ND
CBN	0.00056	0.00169	0.0175	19.8
CBNA	0.0006	0.00181	ND	ND
CBT	0.0018	0.0054	0.0496	56.3
Δ8-THC	0.00104	0.00312	ND	ND
Δ9-THC	0.00076	0.00227	ND	ND
Δ9-THCA	0.00084	0.00251	ND	ND
Δ9-THCV	0.00069	0.00206	ND	ND
Δ9-THCVA	0.00062	0.00186	ND	ND
<b>Total Δ9-THC</b>			<b>ND</b>	<b>ND</b>
<b>Total CBD</b>			<b>1.01</b>	<b>1140</b>
<b>Total</b>			<b>1.09</b>	<b>1240</b>

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA \* 0.877 + Δ9-THC; Total CBD = CBDA \* 0.877 + CBD;



 Generated By: Ryan Bellone  
 CCO  
 Date: 03/08/2023



 Tested By: Nicholas Howard  
 Scientist  
 Date: 02/27/2023

 ISO/IEC 17025:2017 Accredited  
 Accreditation #108651


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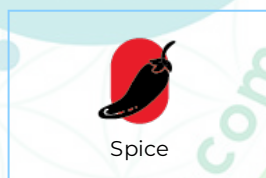
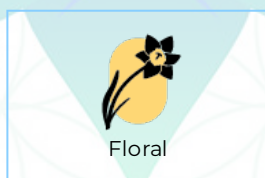
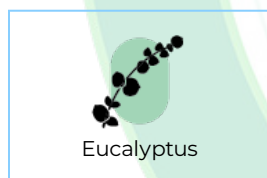
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## Terpenes by GC-MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Analyte	LOD (%)	LOQ (%)	Result (%)	
$\alpha$ -Bisabolol	0.001	0.005	ND	Limonene	0.001	0.005	0.01747	
(+)-Borneol	0.001	0.005	ND	Linalool	0.001	0.005	0.11363	
Camphene	0.001	0.005	ND	$\beta$ -myrcene	0.001	0.005	<LOQ	
Camphor	0.002	0.01	<LOQ	Nerol	0.001	0.005	ND	
3-Carene	0.001	0.005	ND	cis-Nerolidol	0.001	0.005	ND	
$\beta$ -Caryophyllene	0.001	0.005	0.01336	trans-Nerolidol	0.001	0.005	ND	
Caryophyllene Oxide	0.001	0.005	ND	Ocimene	0.001	0.005	0.04966	
$\alpha$ -Cedrene	0.001	0.005	ND	$\alpha$ -Phellandrene	0.001	0.005	0.01168	
Cedrol	0.001	0.005	ND	$\beta$ -Pinene	0.001	0.005	ND	
Eucalyptol	0.001	0.005	0.24736	Pulegone	0.001	0.005	ND	
Fenchone	0.002	0.01	ND	Sabinene	0.001	0.005	ND	
Fenchyl Alcohol	0.001	0.005	ND	Sabinene Hydrate	0.001	0.005	ND	
Geraniol	0.001	0.005	ND	$\alpha$ -Terpinene	0.001	0.005	ND	
Geranyl Acetate	0.001	0.005	ND	$\gamma$ -Terpinene	0.001	0.005	0.00808	
Guaiol	0.001	0.005	ND	$\alpha$ -Terpineol	0.0005	0.0025	ND	
Hexahydrothymol	0.001	0.005	ND	$\gamma$ -Terpineol	0.0005	0.0025	ND	
$\alpha$ -Humulene	0.001	0.005	ND	Terpinolene	0.001	0.005	ND	
Isoborneol	0.001	0.005	ND	Valencene	0.001	0.005	ND	
Isopulegol	0.001	0.005	ND					
							<b>Total Terpenes (%)</b>	<b>0.471</b>

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 CCO  
 Date: 03/08/2023



 Tested By: Jasper van Heemst  
 Principal Scientist  
 Date: 03/01/2023


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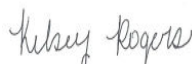
## Heavy Metals by ICP-MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Arsenic	2	20	ND
Cadmium	1	20	ND
Lead	2	20	ND
Mercury	12	50	ND

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Tested By: Kelsey Rogers  
 Scientist  
 Date: 03/01/2023



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**Pesticides by LC-MS/MS**

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Acephate	30	100	ND	Hexythiazox	30	100	ND
Acetamidiprid	30	100	ND	Imazalil	30	100	ND
Aldicarb	30	100	ND	Imidacloprid	30	100	ND
Azoxystrobin	30	100	ND	Kresoxim methyl	30	100	ND
Bifenazate	30	100	ND	Malathion	30	100	ND
Bifenthrin	30	100	ND	Metaxyl	30	100	ND
Boscalid	30	100	ND	Methiocarb	30	100	ND
Carbaryl	30	100	ND	Methomyl	30	100	ND
Carbofuran	30	100	ND	Mevinphos	30	100	ND
Chloranthraniliprole	30	100	ND	Myclobutanil	30	100	ND
Chlorfenapyr	30	100	ND	Naled	30	100	ND
Chlorpyrifos	30	100	ND	Oxamyl	30	100	ND
Clofentezine	30	100	ND	Paclobutrazol	30	100	ND
Coumaphos	30	100	ND	Permethrin	30	100	ND
Daminozide	30	100	ND	Phosmet	30	100	ND
Diazinon	30	100	ND	Piperonyl Butoxide	30	100	ND
Dichlorvos	30	100	ND	Prallethrin	30	100	ND
Dimethoate	30	100	ND	Propiconazole	30	100	ND
Dimethomorph	30	100	ND	Propoxur	30	100	ND
Ethoprophos	30	100	ND	Pyrethrins	30	100	ND
Etofenprox	30	100	ND	Pyridaben	30	100	ND
Etoxazole	30	100	ND	Spinetoram	30	100	ND
Fenhexamid	30	100	ND	Spinosad	30	100	ND
Fenoxycarb	30	100	ND	Spiromesifen	30	100	ND
Fenpyroximate	30	100	ND	Spirotetramat	30	100	ND
Fipronil	30	100	ND	Spiroxamine	30	100	ND
Fonicamid	30	100	ND	Tebuconazole	30	100	ND
Fludioxonil	30	100	ND	Thiacloprid	30	100	ND
				Thiamethoxam	30	100	ND
				Trifloxystrobin	30	100	ND

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 CCO  
 Date: 03/08/2023



 Tested By: Jasper van Heemst  
 Principal Scientist  
 Date: 03/07/2023


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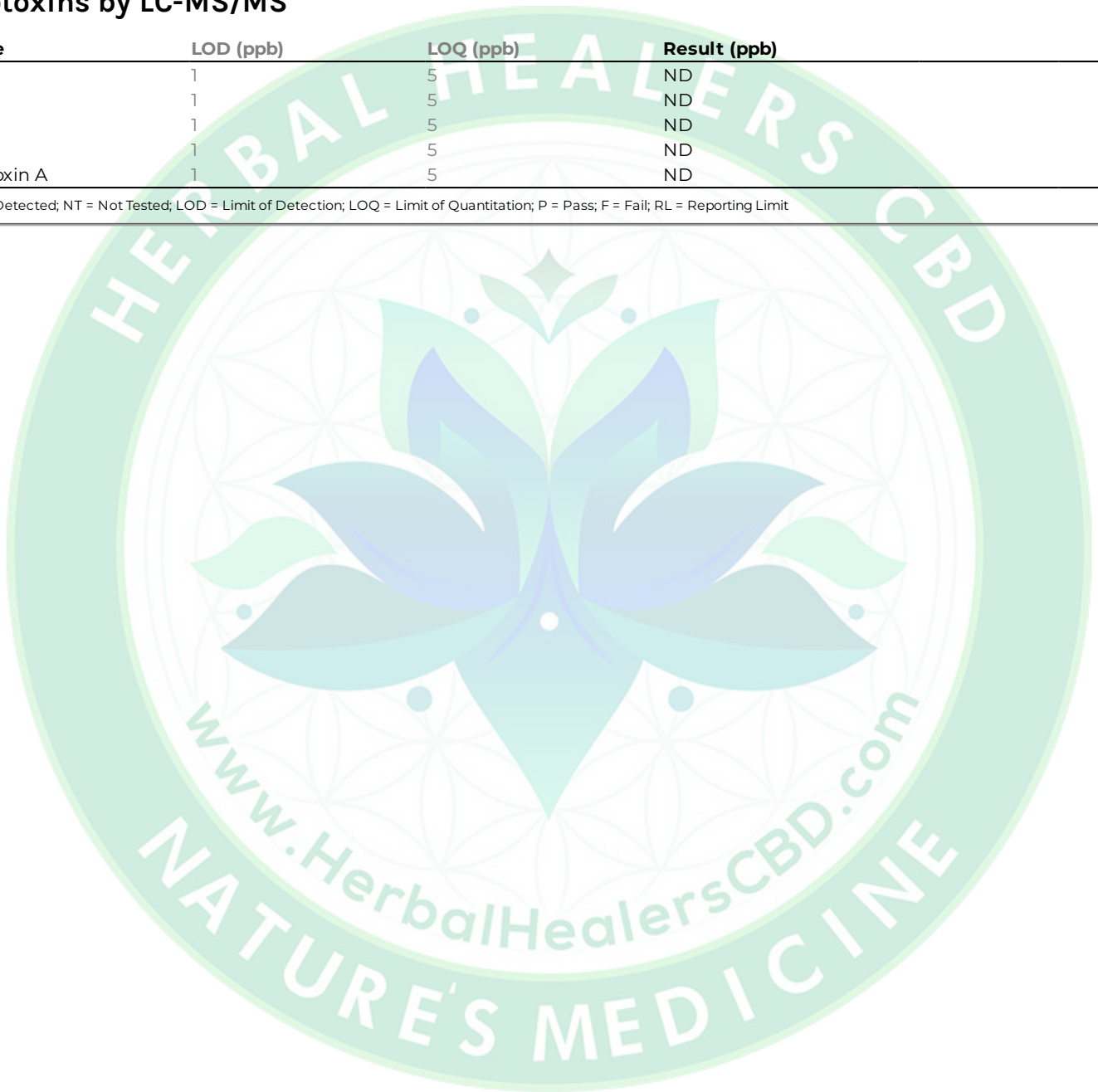
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**Mycotoxins by LC-MS/MS**

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
B1	1	5	ND
B2	1	5	ND
G1	1	5	ND
G2	1	5	ND
Ochratoxin A	1	5	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit




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 Tested By: Jasper van Heemst  
 Principal Scientist  
 Date: 03/07/2023


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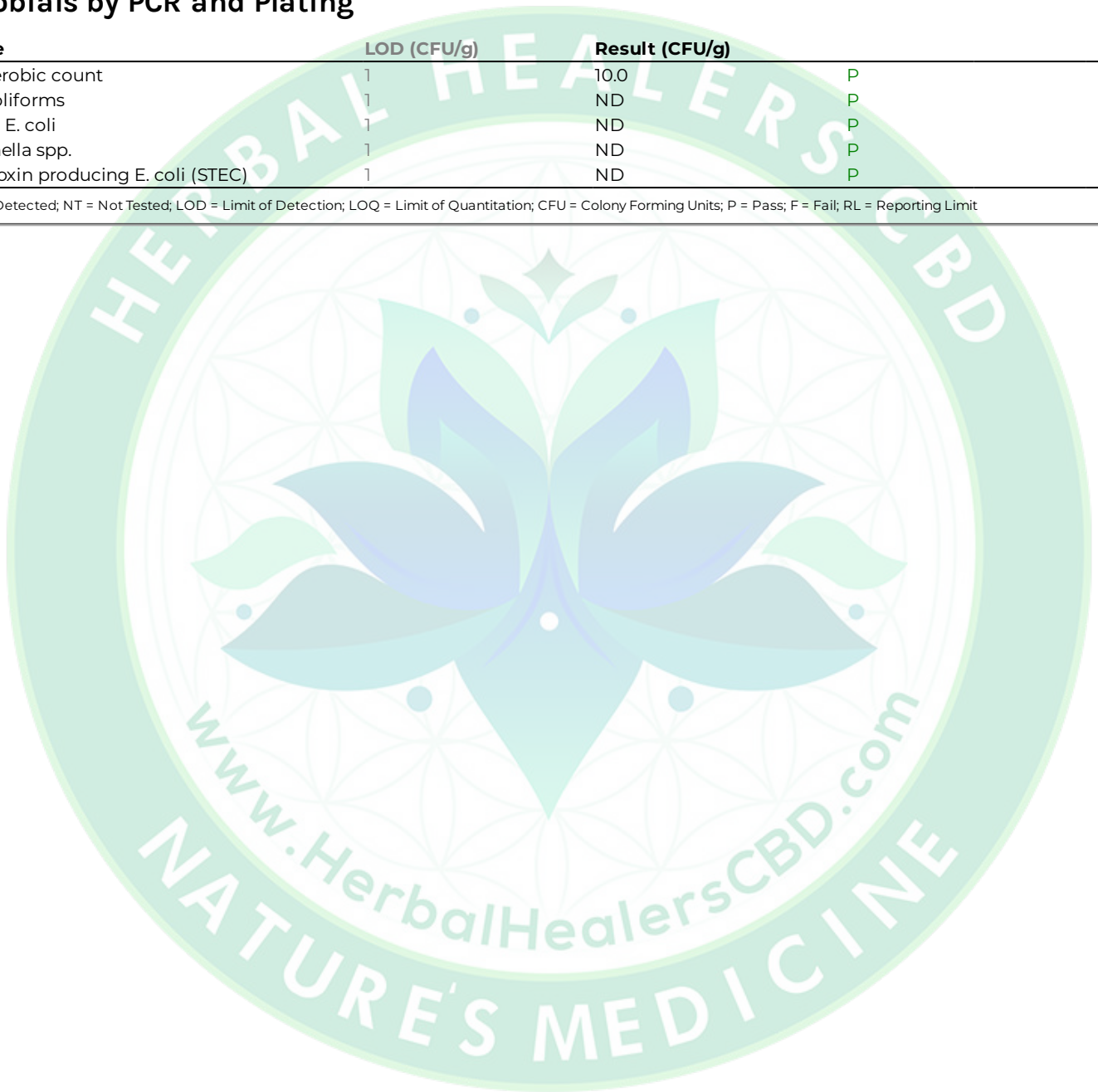
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## Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)	
Total aerobic count	1	10.0	P
Total coliforms	1	ND	P
Generic E. coli	1	ND	P
Salmonella spp.	1	ND	P
Shiga-toxin producing E. coli (STEC)	1	ND	P

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 Date: 03/08/2023



Tested By: Matt Zachman  
 Laboratory Technician  
 Date: 03/02/2023



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**Residual Solvents by HS-GC-MS**

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Acetone	167	500	ND	Ethylene Glycol	21	62	ND
Acetonitrile	14	41	ND	Ethylene Oxide	0.5	1	ND
Benzene	0.5	1	ND	Heptane	167	500	ND
Butane	167	500	ND	n-Hexane	10	29	ND
1-Butanol	167	500	ND	Isobutane	167	500	ND
2-Butanol	167	500	ND	Isopropyl Acetate	167	500	ND
2-Butanone	167	500	ND	Isopropyl Alcohol	167	500	ND
Chloroform	2	6	ND	Isopropylbenzene	167	500	ND
Cyclohexane	129	388	ND	Methanol	100	300	ND
1,2-Dichloroethane	0.5	1	ND	2-Methylbutane	10	29	ND
1,2-Dimethoxyethane	4	10	ND	Methylene Chloride	20	60	ND
Dimethyl Sulfoxide	167	500	ND	2-Methylpentane	10	29	ND
N,N-Dimethylacetamide	37	109	ND	3-Methylpentane	10	29	ND
2,2-Dimethylbutane	10	29	ND	n-Pentane	167	500	ND
2,3-Dimethylbutane	10	29	ND	1-Pentanol	167	500	ND
N,N-Dimethylformamide	30	88	ND	n-Propane	167	500	ND
2,2-Dimethylpropane	167	500	ND	1-Propanol	167	500	ND
1,4-Dioxane	13	38	ND	Pyridine	7	20	ND
Ethanol	167	500	ND	Tetrahydrofuran	24	72	ND
2-Ethoxyethanol	6	16	ND	Toluene	30	89	ND
Ethyl Acetate	167	500	ND	Trichloroethylene	3	8	ND
Ethyl Ether	167	500	ND	Tetramethylene Sulfone	6	16	ND
Ethylbenzene	3	7	ND	Xylenes (o-, m-, and p-)	73	217	ND

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 Generated By: Ryan Bellone  
 CCO  
 Date: 03/08/2023



 Tested By: Scott Caudill  
 Senior Scientist  
 Date: 03/08/2023
