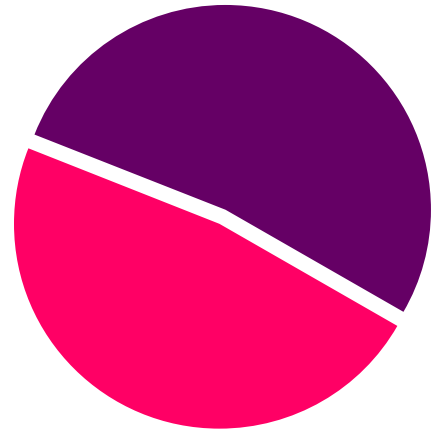


Date:	10/1/2019	Sample ID:	19I24S4006
Customer:	Emily Heitman/Leef Organics	Sample Type:	Topical
Patient Name:	Emily Heitman	Method:	Cannabis Potency
Amount of cannabis received:	1 unit	Technique:	HPLC-UV
Sample Name:	Nooks & Crannies Charcoal & Clay CBD Bar Soap		

Cannabinoid Potency

Cannabidiol (CBD)	0.009%	0.0949 mg/g
Cannabigerol (CBG)	<ND	<ND mg/g
Tetrahydrocannabidiol (THCV)	<ND	<ND mg/g
Cannabidiolic Acid (CBD-A)	0.0105%	0.1046 mg/g
Cannabigerolic Acid (CBG-A)	<ND	<ND mg/g
Cannabinol (CBN)	<ND	<ND mg/g
Δ-9 Tetrahydrocannabinol (THC)	<ND	<ND mg/g
Δ-8 Tetrahydrocannabinol (D8-THC)	<ND	<ND mg/g
Cannabichromene (CBC)	<ND	<ND mg/g
Tetrahydrocannabinolic Acid (THC-A)	<ND	<ND mg/g
Serving Size (g)	140.0	
<i>THC+THCV+CBN+D8-THC+THC-A x Serving Size</i>		ND mg
<i>CBD + CBDV + CBD-A x Serving Size</i>		27.9 mg



■ THC % ■ CBD % ■ CBN % ■ THCA % ■ CBDA %
■ CBG % ■ CBC % ■ CBDV % ■ CBGA % ■ THCV %

Test Result Pass

Remarks:



Sample Photo: Crannies Charcoal & Clay CBD Bar Soap

Results valid for sample tested and metrologically traceable to an SI unit. LOD = 0.0433 ug/mL, LOQ = 0.2164 ug/mL or better. Chemistry values are presented by weight per cent within an error of 4.5% of the reported value with 95% confidence. Sampling per CA BPC 26104(d), if required. Report shall not be reproduced except in full, without written approval from Coastal Analytical.

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Results certified by (chemist): E. Hershman

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San Diego, CA 92121
CA License C8-000027-LIC



Certificate of Analysis

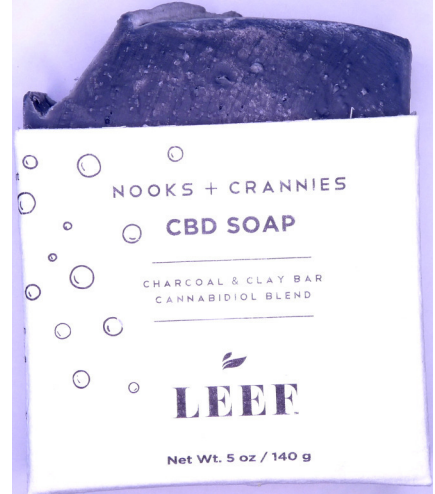
Not Valid for Resale or Transfer

Date:	10/1/2019	Sample ID:	19I24S4006
Customer:	Emily Heitman/Leef Organics	Sample Type:	Topical
Patient Name:	Emily Heitman	Method:	Cannabis Microbial
Amount of cannabis received:	1 unit	Technique:	Plate count
Sample Name:	Nooks & Crannies Charcoal & Clay CBD Bar Soap		

Non-Inhalable Microbiology

<u>Results</u>	Pass	Remarks
Shiga toxin-producing E. Coli	Pass	
Salmonella spp.	Pass	

<u>CA Limits</u>	Not Allowed
Shiga toxin-producing E. Coli	Not Allowed
Salmonella spp.	Not Allowed



Sample Photo: Crannies Charcoal & Clay CBD Bar Soap

Results valid for sample tested. LOD / LOQ: 1 CFU/g. Sampling per 16 CCR 42 Article 3, if required. Report shall not be reproduced except in full, without written approval from Coastal Analytical.

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Results certified by (chemist): E. Hershman

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San Diego, CA 92121
CA License C8-000027-LIC



Date:	10/1/2019	Sample ID:	19I24S4006
Customer:	Emily Heitman/Leef Organics	Sample Type:	Topical
Patient Name:	Emily Heitman	Method:	Cannabis Pesticides
Amount of cannabis received:	1 unit	Technique:	LC-MS/MS
Sample Name:	Nooks & Crannies Charcoal & Clay CBD Bar Soap		

CA Residual Pesticides - Not Inhalable

Pesticide (CAS)	Concentration	Result	Pesticide (CAS)	Concentration	Result
Abamectin 71751-41-2	ND µg/g	Pass	Fludioxonil 131341-86-1	ND µg/g	Pass
Acephate 30560-19-1	ND µg/g	Pass	Hexythiazox 78587-05-0	ND µg/g	Pass
Acequinocyl 57960-19-7	ND µg/g	Pass	Imazalil 35554-44-0	ND µg/g	Pass
Acetamiprid 135410-20-7	ND µg/g	Pass	Imidacloprid 138261-41-3	ND µg/g	Pass
Aldicarb 116-06-3	ND µg/g	Pass	Kresoxim-methyl 143390-89-0	ND µg/g	Pass
Azoxystrobin 131860-33-8	ND µg/g	Pass	Malathion 121-75-5	ND µg/g	Pass
Bifenazate 149877-41-8	ND µg/g	Pass	Metalaxyl 57837-19-1	ND µg/g	Pass
Bifenthrin 82657-04-3	ND µg/g	Pass	Methiocarb 2032-65-7	ND µg/g	Pass
Boscalid 188425-85-6	ND µg/g	Pass	Methomyl 16752-77-5	ND µg/g	Pass
Captan 133-06-2	ND µg/g	Pass	Methyl parathion 298-00-0	ND µg/g	Pass
Carbaryl 63-25-2	ND µg/g	Pass	Mevinphos 7786-34-7	ND µg/g	Pass
Carbofuran 1563-66-2	ND µg/g	Pass	Myclobutanil 88671-89-0	ND µg/g	Pass
Chlorantraniliprole 500008-45-7	ND µg/g	Pass	Naled 300-76-5	ND µg/g	Pass
Chlordane 57-74-9	ND µg/g	Pass	Oxamyl 23135-22-0	ND µg/g	Pass
Chlorfenapyr 122453-73-0	ND µg/g	Pass	Paclobutrazol 76738-62-0	ND µg/g	Pass
Chlorpyrifos 2921-88-2	ND µg/g	Pass	Pentachloronitrobenzene 82-68-8	ND µg/g	Pass
Clofentezine 74115-24-5	ND µg/g	Pass	Permethrins 52645-53-1	ND µg/g	Pass
Coumaphos 56-72-4	ND µg/g	Pass	Phosmet 732-11-6	ND µg/g	Pass
Cyfluthrin 68359-37-5	ND µg/g	Pass	Piperonyl butoxide 51-03-6	ND µg/g	Pass
Cypermethrin 52315-07-8	ND µg/g	Pass	Prallethrin 23031-36-9	ND µg/g	Pass
Daminozide 1596-84-5	ND µg/g	Pass	Propiconazole 60207-90-1	ND µg/g	Pass
DDVP (Dichlorvos) 62-73-7	ND µg/g	Pass	Propoxur 114-26-1	ND µg/g	Pass
Diazinon 333-41-5	ND µg/g	Pass	Pyrethrins 8003-34-7	ND µg/g	Pass
Dimethoate 60-51-5	ND µg/g	Pass	Pyridaben 96489-71-3	ND µg/g	Pass
Dimethomorph 110488-70-5	ND µg/g	Pass	Spinetoram 187166-40-1	ND µg/g	Pass
Ethoprophos 13194-48-4	ND µg/g	Pass	Spinosad 168316-95-8	ND µg/g	Pass
Etofenprox 80844-07-1	ND µg/g	Pass	Spiromesifen 283594-90-1	ND µg/g	Pass
Etoxazole 153233-91-1	ND µg/g	Pass	Spirotetramat 203313-25-1	ND µg/g	Pass
Fenhexamid 126833-17-8	ND µg/g	Pass	Spiroxamine 118134-30-8	ND µg/g	Pass
Fenoxycarb 72490-01-8	ND µg/g	Pass	Tebuconazole 80443-41-0	ND µg/g	Pass
Fenpyroximate 134098-61-6	ND µg/g	Pass	Thiacloprid 111988-49-9	ND µg/g	Pass
Fipronil 120068-37-3	ND µg/g	Pass	Thiamethoxam 153719-23-4	ND µg/g	Pass
Fonicamid 158062-67-0	ND µg/g	Pass	Trifloxystrobin 141517-21-7	ND µg/g	Pass

Shaded values indicate no allowable amount. Results valid for sample tested and metrologically traceable to an SI unit. LOD = 0.10 µg/g, LOQ = 0.10 µg/g or better within an error of 4.6% with 95% confidence. Sampling and pass criteria per CA Code of Regulations, Title 16, Division 42. Article 3, if required. Report shall not be reproduced except in full, without written approval from Coastal Analytical.

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Results certified by (chemist): E. Hershman

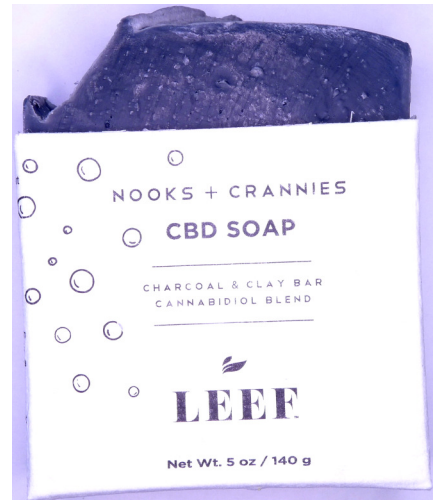
Certificate of Analysis

Not Valid for Resale or Transfer

Date: 10/1/2019		Sampling Date:
Customer: Emily Heitman/Leef Organics	Emily Heitman	Sampling Location:
Address:		Receipt Date:
Distributor: N/A	N/A	Sample ID: 19I24S4006
Address: N/A		Sample Type: Topical
Producer: N/A	N/A	Method: Cannabis Metals
Address: N/A		Technique: GFA-AAS
		Batch ID:
Sample Name: Nooks & Crannies Charcoal & Clay CBD Bar Soap		Batch Size:
		Sample Size: 1 unit

Heavy Metals - Other than Inhalable

<u>Results</u>	Remarks
Arsenic (As) ND µg/g Pass	
Cadmium (Cd) ND µg/g Pass	
Lead (Pb) ND µg/g Pass	
Mercury (Hg) ND µg/g Pass	



Sample Photo: Crannies Charcoal & Clay CBD Bar Soap

Results valid for sample tested and metrologically traceable to an SI unit. LOD = 0.0059 ug/mL, LOQ = 0.029 ug/mL or better. Chemistry values are presented by weight per cent within an error of 14.6% of the reported value with 95% confidence. Sampling per 16 CCR 42 Article 3, if required. Report shall not be reproduced except in full, without written approval from Coastal Analytical.

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Results certified by (chemist): E. Hershman