



Joel Spring Soap

Certificate of Analysis

Customer Name: Lief Holdings
 Address: 9016 Fullbright Ave
 Chatsworth, CA 91311
 Sample Name: STRESS FREE BODY BAR
 Product Code: N/A
 Batch/Lot#: A104022A
 MQL Accession #: 190920-0261

Tested By: Micro Quality Labs, Inc.
 Address: 3125 N. Damon Way, Burbank, CA 91505
 P: (818)845-0070 F: (818)845-0030
 PO#: N/A
 Sample Description: FG
 Rush: N/A
 Received Date: 09/20/19

Pesticide Test Results

Pesticide, Fungicide and plant growth regular analysis utilizing Gas Chromatography - Mass Spectrometry. MQLTM-0343 (USP<S61>Modified) By GC-MS

	µg/g	LOD µg/g	LOQ µg/g
Acephate	< 0.1 ppm	0.1 ppm	0.1 ppm
Alachlor	< 0.05 ppm	0.05 ppm	0.05 ppm
Aldrin and dieldrin (sum of)	< 0.05 ppm	0.05 ppm	0.05 ppm
Azinphos-ethyl	< 0.1 ppm	0.1 ppm	0.1 ppm
Azinphos-methyl	< 1 ppm	1 ppm	1 ppm
Bromide, inorganic	< 125 ppm	125 ppm	125 ppm
Bromophos-ethyl	< 0.05 ppm	0.05 ppm	0.05 ppm
Bromophos-methyl	< 0.05 ppm	0.05 ppm	0.05 ppm
Bromopropylate	< 3 ppm	3 ppm	3 ppm
Chlordane (sum of)	< 0.05 ppm	0.05 ppm	0.05 ppm
Clofenvinphos	< 0.5 ppm	0.5 ppm	0.5 ppm
Chlorpyrifos-ethyl	< 0.2 ppm	0.2 ppm	0.2 ppm
Chlorpyrifos-methyl	< 0.1 ppm	0.1 ppm	0.1 ppm
Chlorthal-dimethyl	< 0.01 ppm	0.01 ppm	0.01 ppm
Cyfluthrin (sum of)	< 0.1 ppm	0.1 ppm	0.1 ppm
λ-Cyhalothrin	< 1 ppm	1 ppm	1 ppm
Cypermethrin and isomers (sum of)	< 1 ppm	1 ppm	1 ppm
DDT (sum of)	< 1 ppm	1 ppm	1 ppm
Deltamethrin	< 0.5 ppm	0.5 ppm	0.5 ppm
Diazinon	< 0.5 ppm	0.5 ppm	0.5 ppm
Dichlofluanid	< 0.1 ppm	0.1 ppm	0.1 ppm
Dichlorvos	< 1 ppm	1 ppm	1 ppm
Dicofol	< 0.5 ppm	0.5 ppm	0.5 ppm
Dimethoate and omethoate (sum of)	< 0.1 ppm	0.1 ppm	0.1 ppm
Dithiocarbamates (expressed as CS ₂)	< 2 ppm	2 ppm	2 ppm
Endosulfan (sum of)	< 3 ppm	3 ppm	3 ppm
Endrin	< 0.05 ppm	0.05 ppm	0.05 ppm
Ethion	< 2 ppm	2 ppm	2 ppm
Etrimpfos	< 0.05 ppm	0.05 ppm	0.05 ppm
Fenchlorophos (sum of)	< 0.1 ppm	0.1 ppm	0.1 ppm
Fenitrothion	< 0.5 ppm	0.5 ppm	0.5 ppm
Fenpropathrin	< 0.03 ppm	0.03 ppm	0.03 ppm
Fensulfothion (sum of)	< 0.05 ppm	0.05 ppm	0.05 ppm
Fenthion (sum of)	< 0.05 ppm	0.05 ppm	0.05 ppm
Fenvalerate	< 1.5 ppm	1.5 ppm	1.5 ppm
Flucythrinate	< 0.05 ppm	0.05 ppm	0.05 ppm
t-Fluvalinate	< 0.05 ppm	0.05 ppm	0.05 ppm
Fonophos	< 0.05 ppm	0.05 ppm	0.05 ppm
Heptachlor (sum of)	< 0.05 ppm	0.05 ppm	0.05 ppm
Hexachlorbenzene	< 0.1 ppm	0.1 ppm	0.1 ppm
Hexachlorocyclohexane (sum of)	< 0.3 ppm	0.3 ppm	0.3 ppm
Lindan (γ-hexachlorocyclohexane)	< 0.6 ppm	0.6 ppm	0.6 ppm
Malathion and malaoxon (sum of)	< 1 ppm	1 ppm	1 ppm
Mecarbam	< 0.05 ppm	0.05 ppm	0.05 ppm
Methacriphos	< 0.05 ppm	0.05 ppm	0.05 ppm
Methamidophos	< 0.05 ppm	0.05 ppm	0.05 ppm
Methidathion	< 0.2 ppm	0.2 ppm	0.2 ppm
Methoxychlor	< 0.05 ppm	0.05 ppm	0.05 ppm
Mirex	< 0.01 ppm	0.01 ppm	0.01 ppm

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Pesticide, Fungicide and plant growth regular analysis utilizing Gas Chromatography - Mass Spectrometry. MQLTM-0343 (USP<S61>Modified) By GC-MS

	µg/g	LOD µg/g	LOQ µg/g
Monocrotophos	< 0.1 ppm	0.1 ppm	0.1 ppm
Parathion-ethyl and paraoxon-ethyl (sum of)	< 0.5 ppm	0.5 ppm	0.5 ppm
Parathion-methyl and paraoxon-methyl (sum of)	< 0.2 ppm	0.2 ppm	0.2 ppm
Pendimethalin	< 0.1 ppm	0.1 ppm	0.1 ppm
Pentachloranisole	< 0.01 ppm	0.01 ppm	0.01 ppm
Permethrin and isomers (sum of)	< 1 ppm	1 ppm	1 ppm
Phosalone	< 0.1 ppm	0.1 ppm	0.1 ppm
Phosmet	< 0.05 ppm	0.05 ppm	0.05 ppm
Piperonyl butoxide	< 3 ppm	3 ppm	3 ppm
Pirimiphos-ethyl	< 0.05 ppm	0.05 ppm	0.05 ppm
Pirimiphos-methyl (sum of)	< 4 ppm	4 ppm	4 ppm
Procymidone	< 0.1 ppm	0.1 ppm	0.1 ppm
Profenophos	< 0.1 ppm	0.1 ppm	0.1 ppm
Prothiophos	< 0.05 ppm	0.05 ppm	0.05 ppm
Pyrethrum (sum of)	< 3 ppm	3 ppm	3 ppm
Quinalphos	< 0.05 ppm	0.05 ppm	0.05 ppm
Quintozene (sum of)	< 1 ppm	1 ppm	1 ppm
S-421	< 0.02 ppm	0.02 ppm	0.02 ppm
Tecnazene	< 0.05 ppm	0.05 ppm	0.05 ppm
Tetradifon	< 0.3 ppm	0.3 ppm	0.3 ppm
Vinclozolin	< 0.4 ppm	0.4 ppm	0.4 ppm

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Mass Spectrometry (ICP-MS) MQLTM-0278 by ICP-MS.

	ppm	LOD µg/g	LOQ µg/g
Lead	0.069 ppm	0.2 ppb	3 ppb
Arsenic	0.002 ppm	0.5 ppb	3 ppb
Cadmium	Not Detected (MDL 0.003 ppm)	0.1 ppb	3 ppb
Mercury	Not Detected (MDL 0.001 ppm)	0.07 ppb	1 ppb

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.

Prepared By: OCT 15 2019
 Diana Zavala/Document Control Specialist 10/15/19
 Reviewed By: OCT 15 2019
 Alex Hovhannisyann/Document Control Specialist 10/15/19

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Aflatoxin Test Results

Aflatoxin analysis utilizing MQLTM-1129 by LCMS

Aflatoxin

µg/g **N/A** LOD µg/g LOQ µg/g

Form # 3B.8 Rev 08-19-2019 DCR2019-0078

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Moisture Test Results

Analysis performed per USP 42 method

Moisture	Specifications	%
	N/A	

Cannabinoid Test Results

Cannabinoid analysis utilizing Ultra Performance Liquid Chromatography, MQLTM-1270 by UPLC

	mg/g	%	LOD µg/g	LOQ µg/g
CBDVA	0 mg/g	N/A	0.5 ppm	1 ppm
CBDV	0 mg/g	N/A	0.5 ppm	1 ppm
CBD	89 mg/113 g	N/A	0.5 ppm	1 ppm
THCV	0 mg/g	N/A	0.5 ppm	1 ppm
THCVA	0 mg/g	N/A	0.5 ppm	1 ppm
CBN	0 mg/g	N/A	0.5 ppm	1 ppm
CBNA	0 mg/g	N/A	0.5 ppm	1 ppm
Δ9 - THC	Not Detected (NMT 50 ppm)	N/A	0.5 ppm	1 ppm
Δ8 - THC	0 mg/g	N/A	0.5 ppm	1 ppm
CBL	0 mg/g	N/A	0.5 ppm	1 ppm
CBC	0 mg/g	N/A	0.5 ppm	1 ppm
THCA-A	0 mg/g	N/A	0.5 ppm	1 ppm
CBCA	0 mg/g	N/A	0.5 ppm	1 ppm
Sum of Cannabinoids	0 mg/g	N/A	0.5 ppm	1 ppm
Total THC	THC Free	N/A	0.5 ppm	1 ppm
(Δ9THC+0.877*THCa)	(NMT 0.3%)			
Total CBD (CBD+0.877*CBDA)		N/A	0.5 ppm	1 ppm
	Action Limit			
THC per Unit	N/A		0.5 ppm	1 ppm
THC per Serving	N/A		0.5 ppm	1 ppm

Water Activity Test Results

Test method utilized: MQLTM-0593

Moisture	Specifications
	N/A

Terpene Test Results

Terpene analysis by GC-MS, MQLTM-1283 by GC-MS

	mg/g	%
(-)-α-Bisabolol (23089-26-1)		
Camphene (79-92-5)		
δ-3-Carene (13466-78-9)		
β-Caryophyllene (87-44-5)		
Geraniol (106-24-1)		
(-)-Guaio (489-86-1)		
α-Humulene (6753-98-6)		
p-Isopropyltoluene (p-cymene) (99-87-6)		
(-)-Isopulegol (89-79-2)		
d-Limonene (5989-27-5)		
Linalool (78-70-6)		
β-Myrcene (123-35-3)		
Nerolidol (7212-44-4)		
Ocimene (13877-91-3)		
α-Pinene (80-56-8)		
(-)-β-Pinene (18172-67-3)		
α-Terpinene (99-86-5)		
γ-Terpinene (99-85-4)		
Terpinolene (586-62-9)		
(-)-Caryophyllene oxide (1139-30-6)		
1,8-Cineole (Eucalyptol) (470-82-6)		
Total Terpene Concentration:		

NIA

Batch Photo



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Residual Solvents Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC-MS), USP<42> Modified [467] By GC-FID

Class I:	USP Limit	Results
1,1 Dichloroethene	8 ppm	
1,1,1 Trichloroethane	1500 ppm	
Carbon Tetrachloride	4 ppm	
Benzene	2 ppm	
1,2-Dichloroethane	5 ppm	
Class II A:		
Methanol	3000 ppm	
Acetonitrile	410 ppm	
Dichloromethane	600 ppm	
1,2-dichloroethene	1870 ppm	
Cis-1,2-dichloroethene	900 ppm	
Tetrahydrofuran	720 ppm	
Cyclohexane	3880 ppm	
Methylcyclohexane	1180 ppm	
Toluene	880 ppm	
1,4-dioxane	850 ppm	
Chlorobenzene	360 ppm	
Ethylbenzene	1605 ppm	
m/p-Xylene	589 ppm	
o-Xylene	1958 ppm	
Cumene	70 ppm	
Class II B:		
Hexane	290 ppm	
1,2 Dimethoxyethane	100 ppm	
trichloroethylene	80 ppm	
Chloroform	60 ppm	
2-Hexanone	50 ppm	
Nitromethane	50 ppm	
Tetralin	200 ppm	
Pyridine	100 ppm	
Class III:		
Ethanol	800 ppm	
Acetone	62 ppm	
IPA	63 ppm	
Methyl Acetate	62 ppm	
Tert Butyl Methyl ether	62 ppm	
Tributylamine	65 ppm	
Acetic Acid	506 ppm	

NIA

Foreign Material Test Results

[Test method information]

Notes

Rev.01-Batch/lot revised.

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 10/15/19
 10/15/19

Microbiological Test Results

Acc# 846386

USP 61 & USP 62

	Specification	Results
TPC	N/A	<10cfu/gm
Yeast/ Mold	N/A	<10cfu/gm
Enrichment	N/A	No Growth
Coliforms	N/A	<10cfu/gm
E.Coli	N/A	Absent
S.Aureus	N/A	Absent
Salmonella/ Shigella	N/A	Absent

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