

## Batch

2815 S 5th Ct  
Milwaukee, WI 53207  
(262) 364-6940

## Laboratory Number: 2209028-15

Batch #: CBC2B7  
Sample Received: 9/9/2022; Report Created: 9/16/2022

Fire & Ice 1250mg Balm  
Topical

### Sample Image



### Terpenes (GCMS-MS) Analyzed: By:

Compound	mg/g	%
alpha-Bisabolol	NT	NT
(-)-Borneol and (+)-Borneol	NT	NT
Camphene	NT	NT
Camphor	NT	NT
beta-Caryophyllene	NT	NT
trans-Caryophyllene	NT	NT
Caryophyllene Oxide	NT	NT
alpha-Cedrene	NT	NT
Cedrol	NT	NT
Endo-fenchyl Alcohol	NT	NT
Eucalyptol	NT	NT
Fenchone	NT	NT
Geraniol	NT	NT
Geranyl acetate	NT	NT
Guaiol	NT	NT
Hexahydrothymol	NT	NT
alpha-Humulene	NT	NT
Isoborneol	NT	NT
Isopulegol	NT	NT
Limonene	NT	NT
Linalool	NT	NT
p-Mentha-1,5-diene	NT	NT
beta-Myrcene	NT	NT
trans-Nerolidol	NT	NT
Ocimene	NT	NT
alpha-Pinene	NT	NT
beta-Pinene	NT	NT
Pulegone	NT	NT
Sabinene	NT	NT
Sabinene Hydrate	NT	NT
gamma-Terpinene	NT	NT
alpha-Terpinene	NT	NT
3-Carene	NT	NT
Terpineol	NT	NT
Terpinolene	NT	NT
Valencene	NT	NT
Nerol	NT	NT
cis-Nerolidol	NT	NT
<b>Total Terpenes</b>	NT	NT

### Cannabinoid (HPLC) Analyzed: 09/16/22 By: KSG

Compound	LOQ %	mg/g	mg/unit	%
THC-A	0.01	ND	ND	ND
delta 9-THC	0.01	0.5	34.00	0.05
delta 8-THC	0.01	0.4	27.20	0.04
THC-V	0.01	ND	ND	ND
CBG-A	0.01	ND	ND	ND
CBD-A	0.01	ND	ND	ND
CBD	0.10	19	1274.8	1.87
CBD-V	0.01	ND	ND	ND
CBN	0.01	0.9	61.20	0.09
CBG	0.01	0.4	27.20	0.04
CBC	0.01	0.4	27.20	0.04

0.50 mg/g 34.00 mg/unit 0.05 % <b>Total THC</b>	18.75 mg/g 1274.80 mg/unit 1.87 % <b>Total CBD</b>	21.35 mg/g 1451.60 mg/unit 2.14 % <b>Total Cannabinoids</b>
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Total THC = THCa \* 0.877 + delta 9-THC; Total CBD = CBDa \* 0.877 + CBD

37.49 : 1 <b>CBD to THC Ratio</b>	Not Tested <b>Water Activity</b>	Not Tested <b>Moisture</b>
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## Safety

Not Tested <b>Pesticides</b>	Not Tested <b>Microbials</b>	Not Tested <b>Residual Solvents</b>	Not Tested <b>Metals</b>	Not Tested <b>pH</b>
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RL = Reporting Limit  
NA = Not Applicable  
NT = Not Tested  
ND = Non Detected  
LOQ = Limit of Quantification

  
Erin Polly  
Technical Laboratory Director



This product has been tested by Desert Valley Testing using valid testing methodologies. Values reported only relate to the product tested. Desert Valley Testing makes no claims to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Desert Valley Testing.



# Certificate of Analysis

**TESTED**
**BATCH**

 N63W22595 Main St  
 Sussex, WI, 53089, US  
 Telephone: (262) 364-6940  
 Email: griff@hellobatch.com

 Sample : KN20907013-002  
 Harvest/Lot ID: 220722

 Batch# : 01  
 Sampled : 08/22/22  
 Ordered : 08/22/22

 Sample Size Received : 15 gram  
 Total Batch Size : N/A  
 Completed : 09/19/22 Expires: 09/19/23  
 Sample Method : SOP Client Method

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## Pesticides

**PASSED**

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTEZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						

Analyzed by: 2803	Weight: 0.5085g	Extraction date: 09/13/22 18:44:18	Extracted by: 2803
Analysis Method : SOP.T.30.060, SOP.T.40.060		Reviewed On : 09/16/22 16:29:52	
Analytical Batch : KN002892PE5		Batch Date : 09/13/22 18:16:18	
Instrument Used : E-SHI-125 Pesticides			
Running on : N/A			
Dilution : 0.01			
Reagent : N/A			
Consumables : N/A			
Pipette : N/A			

Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). \*Based on FL action limits.



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## Residual Solvents

**PASSED**

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND

 Analyzed by:  
 N/A

 Weight:  
 N/A

 Extraction date:  
 N/A

 Extracted by:  
 N/A

 Analysis Method : SOP.T.40.032  
 Analytical Batch : KN002878SOL  
 Instrument Used : E-SHI-106 Residual Solvents  
 Running on : N/A

 Reviewed On : 09/19/22 11:14:48  
 Batch Date : 09/09/22 10:06:59

 Dilution : N/A  
 Reagent : N/A  
 Consumables : N/A  
 Pipette : N/A

Residual solvents analysis is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). \*Based on FL action limits.



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 Sample : KN20907013-002  
 Harvest/Lot ID: 220722

 Batch# : 01  
 Sampled : 08/22/22  
 Ordered : 08/22/22

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 Total Batch Size : N/A  
 Completed : 09/19/22 Expires: 09/19/23  
 Sample Method : SOP Client Method

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**Microbial**
**PASSED**

**Mycotoxins**
**PASSED**

Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	

Analyzed by: 2657    Weight: 1.0021g    Extraction date: 09/08/22 14:13:01    Extracted by: 2657

 Analysis Method : SOP.T.40.043  
 Analytical Batch : KN002867MIC  
 Instrument Used : Micro E-HEW-069  
 Running on : N/A

 Reviewed On : 09/09/22 17:17:07  
 Batch Date : 09/07/22 10:17:35

 Dilution : N/A  
 Reagent : N/A  
 Consumables : N/A  
 Pipette : N/A

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	0.02

Analyzed by: 2803    Weight: 0.5085g    Extraction date: 09/13/22 18:44:18    Extracted by: 2803

 Analysis Method : SOP.T.30.060, SOP.T.40.060  
 Analytical Batch : KN002909MYC  
 Instrument Used : E-SHI-125 Mycotoxins  
 Running on : N/A

 Reviewed On : 09/16/22 16:46:18  
 Batch Date : 09/16/22 16:31:20

 Dilution : 0.01  
 Reagent : N/A  
 Consumables : N/A  
 Pipette : N/A

 Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LC/MS. LOQ 5.0 ppb).  
 \*Based on FL action limits.

**Heavy Metals**
**PASSED**

Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	1.5
CADMIUM-CD	0.02	ppm	ND	PASS	0.5
MERCURY-HG	0.02	ppm	ND	PASS	3
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by: 138, 12    Weight: 0.2548g    Extraction date: 09/09/22 14:46:47    Extracted by: 138

 Analysis Method : SOP.T.40.050, SOP.T.30.052  
 Analytical Batch : KN002871HEA  
 Instrument Used : Metals ICP/MS  
 Running on : N/A

 Reviewed On : 09/09/22 16:44:29  
 Batch Date : 09/07/22 14:00:07

 Dilution : 50  
 Reagent : N/A  
 Consumables : N/A  
 Pipette : N/A

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.082 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.082TN Heavy Metals Analysis via ICP-MS.



# Certificate of Analysis

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N63W22595 Main St  
Sussex, WI, 53089, US  
Telephone: (262) 364-6940  
Email: griff@hellobatch.com

Sample : KN20907013-002  
Harvest/Lot ID: 220722

Batch# : 01  
Sampled : 08/22/22  
Ordered : 08/22/22

Sample Size Received : 15 gram  
Total Batch Size : N/A  
Completed : 09/19/22 Expires: 09/19/23  
Sample Method : SOP Client Method

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**Filth/Foreign Material**

PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	detect/g	ND	PASS	3

Analyzed by:	Weight:	Extraction date:	Extracted by:
2657	0.7115g	09/08/22 14:16:35	2657

Analysis Method : SOP.T.30.074, SOP.T.40.074  
 Analytical Batch : KN002868FIL  
 Instrument Used : E-AMS-138 Microscope  
 Running on : N/A

Reviewed On : 09/08/22 14:23:25  
 Batch Date : 09/07/22 10:21:33

Dilution : N/A  
 Reagent : N/A  
 Consumables : N/A  
 Pipette : N/A

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2T13 Stereo Microscope is used for inspection.

**Sue Ferguson**

Lab Director

State License # n/a  
 ISO Accreditation # 17025:2017

Signature

09/19/22

Signed On



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	<b>Environmental</b>	<b>PASSED</b>
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Analyte	Result	Pass/Fail	Action Level
ASPERGILLUS FLAVUS (ENV)	Not Present	TESTED	
BILE TOLERANT GRAM NEGATIVE HIGH	Not Present	TESTED	
TOTAL AEROBIC BACTERIA HIGH	Not Present	TESTED	
TOTAL ENTEROBACTERIACEAE HIGH	Not Present	TESTED	
AEROMONAS HYDROPHILIA & SALMONICIDA	Not Present	TESTED	
BACILLUS GROUP 1	Not Present	TESTED	
BACILLUS GROUP 2	Not Present	TESTED	
CAMPYLOBACTER SPP.	Not Present	TESTED	
ESCHERICHIA COLI/SHIGELLA SPP. (ENV)	Not Present	TESTED	
LISTERIA SPP.	Not Present	TESTED	
PSEUDOMONAS AERUGINOSA (ENV)	Not Present	TESTED	
PSEUDOMONAS SPP.	Not Present	TESTED	
SALMONELLA ENTERICA/ENTEROBACTER SPP.	Not Present	TESTED	
STAPHYLOCOCCUS AUREUS (ENV)	Not Present	TESTED	
TOTAL YEAST & MOLD HIGH	Not Present	TESTED	
ALTERNARIA SPP.	Not Present	TESTED	
ASPERGILLUS FUMIGATUS (ENV)	Not Present	TESTED	
ASPERGILLUS NIGER (ENV)	Not Present	TESTED	
ASPERGILLUS TERREUS (ENV)	Not Present	TESTED	
BOTRYTIS SPP.	Not Present	TESTED	
CAN. ALB/TROP/DUB	Not Present	TESTED	
CAN. GLAB/SACH & KLUV SPP.	Not Present	TESTED	
CANDIDA ALBICANS	Not Present	TESTED	
CLADOSPORIUM SPP.	Not Present	TESTED	
FUSARIUM OXYSPORUM	Not Present	TESTED	
FUSARIUM SOLANI	Not Present	TESTED	
GOLOVINOMYCES 1J2	Not Present	TESTED	
MUCOR SPP.	Not Present	TESTED	
PEN & ASP SPP.	Not Present	TESTED	
PENICILLIUM SPP.	Not Present	TESTED	
SACCHAROMYCES SPP.	Not Present	TESTED	

Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A
Analysis Method : SOP.T.30.074, SOP.T.40.074			
Analytical Batch : N/A		Reviewed On : 09/19/22 11:24:52	
Instrument Used : N/A		Batch Date : N/A	
Running on : N/A			

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**Sue Ferguson**  
 Lab Director  
 State License # n/a  
 ISO Accreditation # 17025:2017

  
 Signature

09/19/22  
 Signed On