

# Certificate of Analysis

Product Name: Shell Shock FS Peppermint 1500 mg	Product No.: SSK-6-006-2-30
	Country of Origin: USA
Lot No.: 21226K11	Serving Size: 1 mL
	Manufacture Date: 04/29/2021
Product Packaging: 30 mL bottle/dropper	Report Date: 05/12/2021

Analyte	Test Method	Acceptable Limit	Test Results
<b>Physical</b>			
Appearance	Visual	Clear liquid	Conforms
Color	Visual	Amber	Conforms
Odor	Organoleptic	Peppermint with hemp	Conforms
<b>Potency</b>			
Total cannabinoids	MSP-7.3.1.3	NLT 50 mg/mL	54 mg/mL
Total THC (delta 9 THC and THC-A)	MSP-7.3.1.3	NMT 0.3% w/w	Conforms
<b>Impurities</b>			
Pesticides	MSP-7.5.1.8	Below action level limits	Conforms
Solvents	MSP-7.5.1.6	Below action level limits	Conforms
<b>Microbiological Pathogens</b>			
Escherichia Coli	MSP-7.5.1.9	Absent/10g	None detected
Salmonella	MSP-7.5.1.9	Absent/10g	None detected
Aflatoxins	MSP-7.5.1.9	< 20 ppb	0 ppb
Ochratoxin A	MSP-7.5.1.9	< 20 ppb	0 ppb
Molds	MSP-7.5.1.9	NMT 10 <sup>2</sup> cfu/g	Conforms
<b>Heavy Metals</b>			
Arsenic	MSP-7.5.1.1	NMT 1.5 ppm	Conforms
Cadmium	MSP-7.5.1.1	NMT 0.3 ppm	Conforms
Lead	MSP-7.5.1.1	NMT 1.0 ppm	Conforms
Mercury	MSP-7.5.1.1	NMT 0.5 ppm	Conforms

Quality Control: 

Date: 05/12/2021

Quality Assurance: 

Date: 5/12/21



certificate ID  
**1DZ78**

# ShellShock 1500mg Peppermint 26

# 7USC1639 Certificate of Analysis

LaCore Nutraceuticals

Lot# 21226K11

rec'd 4/30/2021 1:04:53 PM

order 10624



total  
cannabinoids  
**53.6mg**

per  
mL

THC‡ 1.8mg  
CBD‡ 50.3mg

This Product Has Been  
Tested and Complies  
with 7USC1639(1)

Stillwater  
Laboratories



Potency per	mL	MSP-7.5.1.4	LOD	LOQ	error (95%CI k=2)
<b>total cannabinoids</b>	<b>53.6mg</b>		<b>0.08</b>	<b>0.24</b>	<b>±1.16mg</b>
<b>total THC‡</b>	<b>1.8mg</b>		<b>0.08</b>	<b>0.24</b>	<b>±0.28mg</b>
<b>total THC (THC+THCa)</b>	<b>1.8mg</b>		<b>0.08</b>	<b>0.24</b>	<b>±0.28mg</b>
total CBD‡	50.3mg		0.08	0.24	±1.10mg
total CBD (CBD+CBDA)	50.3mg		0.08	0.24	±1.10mg
tetrahydrocannabinolic acid (THCa)	ND		0.08	0.25	±0.25mg
Δ9-tetrahydrocannabinol (Δ9 THC)	1.8mg		0.08	0.23	±0.26mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND		0.10	0.31	±0.31mg
tetrahydrocannabinavarin (THCv)	ND		0.09	0.26	±0.26mg
cannabidiolic acid (CBDA)	ND		0.07	0.22	±0.22mg
cannabidiol (CBD)	50.3mg		0.08	0.25	±1.10mg
cannabidivarin (CBDv)	ND		0.08	0.25	±0.25mg
cannabigerolic acid (CBGA)	ND		0.07	0.22	±0.22mg
cannabigerol (CBG)	0.4mg		0.02	0.07	±0.08mg
cannabinol (CBN)	0.1mg		0.04	0.13	±0.14mg
cannabichromene (CBC)	0.9mg		0.08	0.24	±0.26mg

Terpenes	MSP-7.5.1.6	total terpenes	ND
caryophyllene		linalool	ND
humulene		β-myrcene	ND
terpinolene		D-limonene	ND
ocimene		α-pinene	ND
beta pinene		β-pinene	ND
alpha pinene		ocimene	ND
limonene		terpinolene	ND
myrcene		α-humulene	ND
linalool		β-caryophyllene	ND
		α-bisabolol	ND
		camphene	ND
		Δ3-carene	ND
		caryophyllene oxide	ND
		para-cymene	ND
		eucalyptol	ND
		geraniol	ND
		guaiaol	ND

Microbial	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	0CFU	0.0	0.1	±0.1CFU	PASS
Salmonella sp.	ND	0CFU	0.0	0.1	±0.1CFU	PASS
molds	ND	10000CFU	2.0	5.9	±5.9CFU	PASS
Ochratoxin A	ND	20 ppb	0.3	1.0	±1.0 ppb	PASS
Aflatoxin B1B2G1G2	ND	20 ppb	0.3	1.0	±1.0 ppb	PASS

Pesticides	MSP-7.5.1.8	limit	LOD	LOQ	error	result
Abamectin	ND	0.30 ppm	0.005	0.016	±0.016 ppm	PASS
Acephate	ND	5.00 ppm	0.006	0.017	±0.017 ppm	PASS
Acequinocyl	ND	4.00 ppm	0.005	0.014	±0.014 ppm	PASS
Acetamiprid	ND	5.00 ppm	0.004	0.012	±0.012 ppm	PASS
Aldicarb	ND	0.00 ppm	0.002	0.005	±0.005 ppm	PASS
Azoxystrobin	ND	40.00 ppm	0.002	0.005	±0.005 ppm	PASS
Bifenazate	ND	5.00 ppm	0.001	0.004	±0.004 ppm	PASS
Bifenthrin	ND	0.50 ppm	0.001	0.002	±0.002 ppm	PASS
Boscalid	ND	10.00 ppm	0.016	0.047	±0.047 ppm	PASS
Carbaryl	ND	0.50 ppm	0.006	0.019	±0.019 ppm	PASS
Carbofuran	ND	0.00 ppm	0.001	0.004	±0.004 ppm	PASS
Chloanthranilprole	ND	40.00 ppm	0.015	0.045	±0.045 ppm	PASS
Chlorfenapyr	ND	0.00 ppm	0.004	0.012	±0.012 ppm	PASS
Chlorpyrifos	ND	0.00 ppm	0.031	0.093	±0.093 ppm	PASS
Clofentezine	ND	0.50 ppm	0.006	0.017	±0.017 ppm	PASS
Coumaphos	ND	0.00 ppm	0.004	0.012	±0.012 ppm	PASS
Cyfluthrin	ND	1.00 ppm	0.006	0.017	±0.017 ppm	PASS
Cypermethrin	ND	1.00 ppm	0.004	0.012	±0.012 ppm	PASS
Daminozide	ND	0.00 ppm	0.021	0.064	±0.064 ppm	PASS
Dichlorvos	ND	0.00 ppm	0.011	0.033	±0.033 ppm	PASS
Diazinon	ND	0.20 ppm	0.001	0.003	±0.003 ppm	PASS
Dimethoate	ND	0.00 ppm	0.002	0.005	±0.005 ppm	PASS
Etoxazole	ND	1.50 ppm	0.003	0.009	±0.009 ppm	PASS
Fenoxycarb	ND	0.00 ppm	0.003	0.008	±0.008 ppm	PASS
Fenpyroximate	ND	2.00 ppm	0.001	0.003	±0.003 ppm	PASS
Fipronil	ND	0.00 ppm	0.006	0.017	±0.017 ppm	PASS
Fonicamid	ND	2.00 ppm	0.075	0.226	±0.226 ppm	PASS
Fludioxonil	ND	30.00 ppm	0.005	0.015	±0.015 ppm	PASS
Hexythiazox	ND	2.00 ppm	0.001	0.002	±0.002 ppm	PASS
Imazalil	ND	0.00 ppm	0.005	0.015	±0.015 ppm	PASS
Imidacloprid	ND	3.00 ppm	0.001	0.003	±0.003 ppm	PASS
Malathion	ND	5.00 ppm	0.004	0.012	±0.012 ppm	PASS
Metaxalyl	ND	15.00 ppm	0.006	0.017	±0.017 ppm	PASS
Methiocarb	ND	0.00 ppm	0.003	0.008	±0.008 ppm	PASS
Methomyl	ND	0.10 ppm	<0.001	0.001	±0.001 ppm	PASS
Methyl parathion	ND	0.00 ppm	0.001	0.002	±0.002 ppm	PASS
Mevinphos	ND	0.00 ppm	0.004	0.012	±0.012 ppm	PASS
Myclobutanil	ND	9.00 ppm	0.001	0.002	±0.002 ppm	PASS
Naled	ND	0.50 ppm	0.004	0.012	±0.012 ppm	PASS
Oxamyl	ND	0.20 ppm	0.002	0.005	±0.005 ppm	PASS
Paclobutrazol	ND	0.00 ppm	0.002	0.006	±0.006 ppm	PASS
Permethrin	ND	20.00 ppm	0.008	0.023	±0.023 ppm	PASS
Phosmet	ND	0.20 ppm	0.002	0.007	±0.007 ppm	PASS
Piperonylbutoxide	ND	8.00 ppm	0.008	0.023	±0.023 ppm	PASS
Prallethrin	ND	0.40 ppm	0.003	0.009	±0.009 ppm	PASS
Propiconazole	ND	20.00 ppm	0.003	0.009	±0.009 ppm	PASS
Propoxur	ND	0.00 ppm	0.004	0.013	±0.013 ppm	PASS

Solvents	MSP-7.5.1.7	limit	LOD	LOQ	error	result
Acetone	ND	5000 ppm	0.7	2.1	±2.1 ppm	PASS
Acetonitrile	ND	410 ppm	0.6	1.8	±1.8 ppm	PASS
Benzene	ND	0 ppm	0.0	0.1	±0.1 ppm	PASS
Butane	ND	5000 ppm	1.4	4.2	±4.2 ppm	PASS
Chloroform	ND	0 ppm	0.1	0.2	±0.2 ppm	PASS
Cyclohexane	ND	0 ppm	0.5	1.6	±1.6 ppm	PASS
Ethanol	26 ppm	10000 ppm	0.7	2.1	±2.8 ppm	PASS
Heptane	ND	5000 ppm	0.4	1.2	±1.2 ppm	PASS
Hexane	ND	290 ppm	0.5	1.6	±1.6 ppm	PASS
Isopropyl alcohol	ND	5000 ppm	0.6	1.9	±1.9 ppm	PASS
Methanol	ND	3000 ppm	0.5	1.6	±1.6 ppm	PASS
Pentane	ND	5000 ppm	0.2	0.6	±0.6 ppm	PASS
Propane	ND	5000 ppm	0.5	1.6	±1.6 ppm	PASS
Toluene	ND	890 ppm	0.3	0.9	±0.9 ppm	PASS
Xylenes	ND	2170 ppm	0.3	1.0	±1.0 ppm	PASS

Metals	MSP-7.5.1.11	limit	LOD	LOQ	error	result
Arsenic	ND	1500 ppb	8.1	24.2	±24.2 ppb	PASS
Cadmium	ND	500 ppb	8.7	26.1	±26.1 ppb	PASS
Lead	ND	500 ppb	13.6	40.7	±40.7 ppb	PASS
Mercury	ND	300 ppb	6.8	20.5	±20.5 ppb	PASS

Pesticides	MSP-7.5.1.8	limit	LOD	LOQ	error	result
Pyrethrin	ND	1.00 ppm	0.002	0.006	±0.006 ppm	PASS
Pyridaben	ND	3.00 ppm	0.001	0.002	±0.002 ppm	PASS
Spinetoram	ND	3.00 ppm	0.003	0.008	±0.008 ppm	PASS
Spinosad	ND	3.00 ppm	0.005	0.015	±0.015 ppm	PASS
Spiromesifen	ND	12.00 ppm	0.002	0.007	±0.007 ppm	PASS
Spirotetramat	ND	13.00 ppm	0.002	0.005	±0.005 ppm	PASS
Spiroxamine	ND	0.00 ppm	0.001	0.002	±0.002 ppm	PASS
Tebuconazole	ND	2.00 ppm	0.004	0.012	±0.012 ppm	PASS
Thiacloprid	ND	0.10 ppm	0.001	0.002	±0.002 ppm	PASS
Thiamethoxam	ND	4.50 ppm	0.002	0.007	±0.007 ppm	PASS
Trifloxystrobin	ND	30.00 ppm	0.002	0.005	±0.005 ppm	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Kyle Larson, MSc  
Deputy Director

Jacob Harris  
QA Manager



https://customer.a2la.org/index.cfm?event=directory\_detail&labPID=42363582-5128-4C6F-871A-419DCF4380D7

Stillwater Laboratories Inc.  
MT License L0001, L0007  
6073 US93N Suite 5, Olney MT 59927  
406-881-2019

INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

\* All testing was completed onsite at 6073 US93N, Olney MT \*\* Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub> ... Decarboxylated cannabinoid concentration is calculated XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + XXX ... Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection (3.3s), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula s<sub>p</sub><sup>2</sup> = Σ(d<sub>i</sub>/d<sub>i</sub>)<sup>2</sup>s<sub>e</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t<sub>(2,90)</sub> × s<sub>p</sub>. Sampling error is not considered in error calculations, ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

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