

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Sports Cream
PRODUCT STRENGTH: 400 mg
LOT NUMBER: 0072A
BEST BY DATE: 09/12/2021
HEMP EXTRACT LOT NUMBER: [CONO19-124](#)

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	white to off white	PASS
Odor	SOP-100	Blend of Menthol, Camphor, Eucalyptus, Lavender, Rosemary, Wintergreen & Marjoram.	PASS
Appearance	SOP-100	Creamy smooth cream consistency with medium viscosity	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Lid intact.	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results	Pass/Fail
Potency - Total CBD	SOP-111	380-500 mg CBD LOQ*: 10 PPM† (0.001%)	.5% or 480 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	Action Limits for Oregon Pesticides use in Cannabis	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOD	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOD	PASS
Microbial - Mold	SOP-111	Complies with USP 61/62	Below LOD	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	Below LOQ	PASS

* Level of Quantitation, † Parts Per Million

Quality Certified by:

Darcie Moran

Darcie Moran
Manager of Quality Assurance

03.24.2020

Date



Sports Cream 0072A

Certificate of Analysis

total cannabinoids **0.5%**
 CBD decarb total .44%
 Δ9-THC ND

This Product Has Been Tested and Complies with 7USC1639o(1) Definition of Hemp



<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID sample date 3/11/20 12:49 PM
 order 6783 labID 0CJ73 weight 113.6 g
 source

Methods

method	equipment
weights	MSP-7.3.1.3 AUX120.1
potency	MSP-7.5.1.5 LC-2030
terpenes	MSP-7.5.1.7 QP2020/HS20
pesticides	MSP-7.5.1.8 LC-8060
mycotoxins	MSP-7.5.1.8 LC-8060
microbial	MSP-7.5.1.9 Hardy Diag
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.10 ICPMS2030



Potency

compound	%	estimated error
tetrahydrocannabinolic acid (THCa)	ND	± 0.02 %
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	ND	± 0.02 %
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	ND	± 0.02 %
tetrahydrocannabinol (THCv)	ND	± 0.02 %
cannabidiolic acid (CBDA)	.02%	± 0.02 %
cannabidiol (CBD)	42%	± 0.06 %
cannabivarin (CBDv)	0%	± 0.02 %
cannabigerolic acid (CBGA)	ND	± 0.02 %
cannabigerol (CBG)	.01%	± 0.02 %
cannabinol (CBN)	ND	± 0.02 %
cannabichromene (CBC)	ND	± 0.02 %

Terpenes

terpenes not tested / not required

Solvents

solvent	MT limit	0CJ73	LOQ
propane	5,000	PASS	<10ppm
butanes	5,000	PASS	<10ppm
pentanes	5,000	PASS	<10ppm
hexanes	290	PASS	<10ppm
cyclohexane	3,880	PASS	<10ppm
heptanes	5,000	PASS	<10ppm
methanol	3,000	PASS	<10ppm
isopropanol	5,000	PASS	<10ppm
acetone	5,000	PASS	<10ppm
ethyl acetate	5,000	PASS	<10ppm
benzene	2	PASS	<0.2ppm
toluene	890	PASS	<10ppm
xylene	2,170	PASS	<10ppm
chloroform	2	PASS	<0.2ppm
dichloromethane	600	PASS	<10ppm

Pesticides (MT)

pesticide	MT limit	0CJ73	LOQ
abamectin			<10ppb
acequinocyl			<10ppb
bifenazate			<10ppb
bifenthrin			<10ppb
chloromequat cl.			<10ppb
cyfluthrin			<80ppb
diaminozide			<10ppb
etoxazole			<10ppb
fenoxycarb			<10ppb
imazalil			<10ppb
imidacloprid			<10ppb
myclobutanil			<10ppb
paclobutrazol			<10ppb
pyrethrins			<10ppb
spinosad			<10ppb
spiromesifen			<10ppb
spirotetramat			<10ppb
trifloxystrobin			<10ppb

Pesticides (other)

pesticide	0CJ73	LOQ
acephate	0.00 ppm	<10ppb
acetamidiprid	0.00 ppm	<10ppb
aldicarb	0.00 ppm	<10ppb
azoxystrobin	0.00 ppm	<10ppb
boscalid	0.00 ppm	<10ppb
carbaryl	0.00 ppm	<10ppb
carbofuran	0.00 ppm	<10ppb
chlorantraniliprole	0.00 ppm	<10ppb
chlorpyrifos	0.00 ppm	<10ppb
clofentezine	0.00 ppm	<10ppb
cypermethrin	0.00 ppm	<10ppb
diazinon	0.00 ppm	<10ppb
dichlorvos	0.00 ppm	<10ppb
dimethoate	0.00 ppm	<10ppb
etofenprox	0.00 ppm	<10ppb
fenpyroximate	0.00 ppm	<10ppb
fipronil	0.00 ppm	<10ppb
flonicamid	0.00 ppm	<10ppb
fludioxonil	0.00 ppm	<10ppb
hexythiazox	0.00 ppm	<10ppb
kresoxym-methyl	0.00 ppm	<10ppb
malathion	0.00 ppm	<10ppb
metaxyl	0.00 ppm	<10ppb
methiocarb	0.00 ppm	<10ppb
methomyl	0.00 ppm	<10ppb
oxamyl	0.00 ppm	<10ppb
permethrins	0.00 ppm	<10ppb
phosmet	0.00 ppm	<10ppb
piperonyl butoxide	0.00 ppm	<10ppb
prallethrin	0.00 ppm	<10ppb
propiconazole	0.00 ppm	<10ppb
pyridaben	0.00 ppm	<10ppb
spiroxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb

Toxic Metals

metal	MT limit	0CJ73	LOQ
arsenic	2 ppm	PASS	<10ppb
cadmium	4.1 ppm	PASS	<10ppb
lead	1.2 ppm	PASS	<10ppb
mercury	0.4 ppm	PASS	<10ppb

Microbial

organism	MT limit	0CJ73	LOQ
E. coli	10 CFU	PASS	<10 CFU/g
Salmonella sp.	10 CFU	PASS	<10 CFU/g
molds	10000 CFU	PASS	<10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	PASS	<20 ppb
Ochratoxin A	20 ppb	PASS	<20 ppb

Certified by:

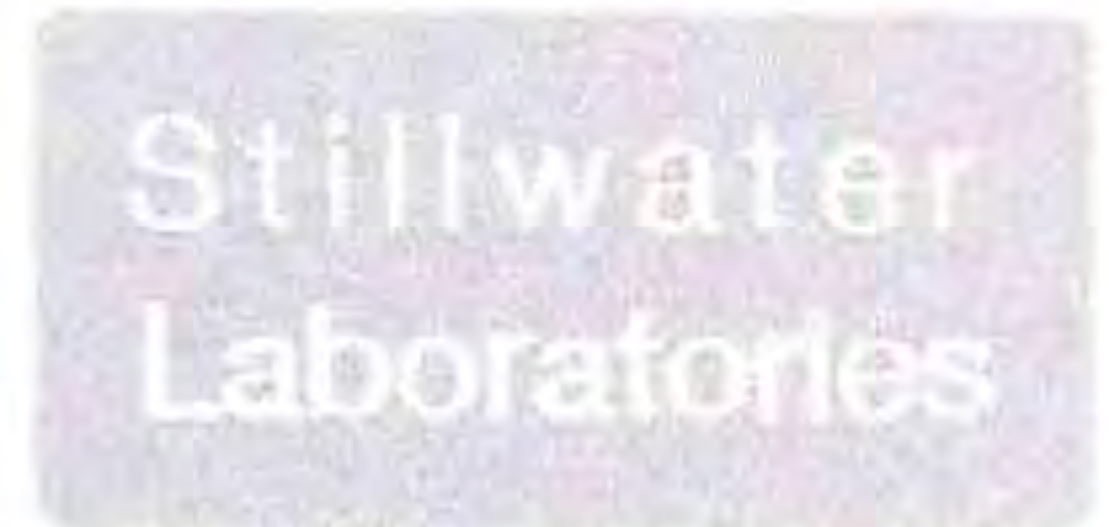
Justin M Johnston
 Deputy Director
 6073 US93N, Olney MT 59927
 406-991-2019 rdb@stwtabs.com

All testing was completed onsite at 6073 US93N, Olney MT. Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{ELC} x volume_{ELC} / m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{ELC} / m_{dry}. Decarboxylated cannabinoid concentration is calculated from the equation: XXX_{total} = 0.877 x XXX_a + XXX. Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method, this is combined with error from weighing and dilution using the propagation of error formula: s_y² = Σ(∂f/∂i)²s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{0.95} x s_y. Sampling error is not



total cannabinoids **85.3%**
 CBD decarb total 84.31%
 Δ9-THC ND

This Product Has Been Tested and Complies with 7USC1639o(1) Definition of Hemp



https://portal.a2la.org/scopepdf/4961-01.pdf

Sample Handling

test ID order 6767 source
 sample date 3/9/20 11:06 AM
 labID 0CG24 weight
 source

Methods	method	equipment
weights	MSP-7.3.1.3	AUX120.1
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.9	Hardy Diag
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.10	ICPMS2030

- caryophyllene
- humulene
- terpinolene
- ocimene
- beta pinene
- alpha pinene
- limonene
- myrcene
- linalool



concentrate



Potency

	%	estimated error
tetrahydrocannabinolic acid (THCa)	ND	± 0.02 %
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	ND	± 0.02 %
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	ND	± 0.02 %
tetrahydrocannabivarin (THCv)	ND	± 0.02 %
cannabidiolic acid (CBDa)	ND	± 0.02 %
cannabidiol (CBD)	84.31%	± 0.75 %
cannabidivarin (CBDv)	.92%	± 0.08 %
cannabigerolic acid (CBGa)	ND	± 0.02 %
cannabigerol (CBG)	.04%	± 0.02 %
cannabinol (CBN)	ND	± 0.02 %
cannabichromene (CBC)	ND	± 0.02 %

Terpenes

	%	estimated error		%	estimated error		%	estimated error
β-myrcene	0.000%	± 0.0016 %	camphene	0.000%	± 0.0016 %	guaiol	0.001%	± 0.0017 %
β-caryophyllene	0.005%	± 0.0018 %	Δ ³ -carene	0.000%	± 0.0016 %	β-bisabolol	0.000%	± 0.0016 %
alpha-pinene	0.002%	± 0.0017 %	α-terpinene	0.000%	± 0.0016 %	eucalyptol	0.003%	± 0.0017 %
β-pinene	0.000%	± 0.0016 %	para-cymene	0.010%	± 0.0019 %			
D-limonene	0.000%	± 0.0016 %	g-terpinene	0.008%	± 0.0019 %			
linalool	0.006%	± 0.0018 %	(-)-isopulegol	0.000%	± 0.0016 %	total		
ocimene	0.000%	± 0.0033 %	geraniol	0.000%	± 0.0016 %	terpenes		
terpinolene	0.000%	± 0.0016 %	cis-nerolidol	0.000%	± 0.0016 %			
alpha-humulene	0.006%	± 0.0019 %	trans-nerolidol	0.000%	± 0.0016 %			
								0.06%

Solvents

Solvents	MT limit	0CG24	LOD
propane	5,000	0 ppm	<10ppm
butanes	5,000	0 ppm	<10ppm
pentanes	5,000	0 ppm	<10ppm
hexanes	290	0 ppm	<10ppm
cyclohexane	3,880	0 ppm	<10ppm
heptanes	5,000	0 ppm	<10ppm
methanol	3,000	0 ppm	<10ppm
isopropanol	5,000	0 ppm	<10ppm
acetone	5,000	0 ppm	<10ppm
ethyl acetate	5,000	0 ppm	<10ppm
benzene	2	0 ppm	<0.2ppm
toluene	890	0 ppm	<10ppm
xylenes	2,170	0 ppm	<10ppm
chloroform	2	0 ppm	<0.2ppm
dichloromethane	600	0 ppm	<10ppm

Pesticides (MT)

Pesticides (MT)	MT limit	0CG24	LOD
abamectin	2.50 ppm	0.00 ppm	<10ppb
acequinocyl	10.00 ppm	0.00 ppm	<10ppb
bifenazate	1.00 ppm	0.00 ppm	<10ppb
bifenthrin	1.00 ppm	0.00 ppm	<10ppb
chlormequat cl.	5.00 ppm	0.00 ppm	<10ppb
cyfluthrin	5.00 ppm	0.00 ppm	<10ppb
diaminozide	5.00 ppm	0.00 ppm	<10ppb
etoxazole	1.00 ppm	0.00 ppm	<10ppb
fenoxycarb	1.00 ppm	0.00 ppm	<10ppb
imazalil	1.00 ppm	0.00 ppm	<10ppb
imidacloprid	2.00 ppm	0.00 ppm	<10ppb
myclobutanil	0.60 ppm	0.00 ppm	<10ppb
paclobutrazol	2.00 ppm	0.03 ppm	<10ppb
pyrethrins	5.00 ppm	0.00 ppm	<10ppb
spinosad	1.00 ppm	0.00 ppm	<10ppb
spiromesifen	1.00 ppm	0.00 ppm	<10ppb
spirotetramat	1.00 ppm	0.00 ppm	<10ppb
trifloxystrobin	1.00 ppm	0.00 ppm	<10ppb

Pesticides (other)

Pesticides (other)	0CG24	LOD
acephate	0.00 ppm	<10ppb
acetamiprid	0.00 ppm	<10ppb
aldicarb	0.00 ppm	<10ppb
azoxystrobin	0.00 ppm	<10ppb
boscalid	0.00 ppm	<10ppb
carbaryl	0.00 ppm	<10ppb
carbofuran	0.00 ppm	<10ppb
chlorantraniliprole	0.00 ppm	<10ppb
chlorpyrifos	0.00 ppm	<10ppb
clofentezine	0.00 ppm	<10ppb
cypermethrin	0.00 ppm	<10ppb
diazinon	0.00 ppm	<10ppb
dichlorvos	0.00 ppm	<10ppb
dimethoate	0.00 ppm	<10ppb
etofenprox	0.00 ppm	<10ppb
fenpyroximate	0.00 ppm	<10ppb
fipronil	0.00 ppm	<10ppb
flonicamid	0.00 ppm	<10ppb
fludioxonil	0.00 ppm	<10ppb
hexythiazox	0.00 ppm	<10ppb
kresoxym-methyl	0.00 ppm	<10ppb
malathion	0.00 ppm	<10ppb
metalaxyl	0.01 ppm	<10ppb
methiocarb	0.00 ppm	<10ppb
methomyl	0.00 ppm	<10ppb
oxamyl	0.00 ppm	<10ppb
permethrins	0.00 ppm	<10ppb
phosmet	0.00 ppm	<10ppb
piperonyl butoxide	0.00 ppm	<10ppb
prallethrin	0.00 ppm	<10ppb
propiconazole	0.00 ppm	<10ppb
pyridaben	0.00 ppm	<10ppb
spiroxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb

Toxic Metals

Toxic Metals	MT limit	0CG24	LOD
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metals not tested / not required

Microbial

Microbial	MT limit	0CG24	LOD
E. coli	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

Comments

All testing was completed onsite at 6073 US93N, Olney MT. Potency (cannabinoid concentration) is calculated from the equation [cannabinoid] = [cannabinoid]_{LC} x volume_{dilution} / m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{LC} / m_{dry}. Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + XXX. Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula s_y² = Σ(∂f/∂i)²s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{0.975} x s_y. Sampling error is not

Certified by:

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Printed 3/13/2020 10:23 AM