



Pet

Wanae USA

Certificate of Analysis

Stillwater  
Laboratories

total cannabinoids	Δ9-THC	THCa	total THC
<b>9.9 mg</b>	0.0 mg	0.1 mg	0.1 mg
per mL	CBD	CBDa	total CBD
	9.7 mg	0 mg	9.7 mg

### Sample Handling

test ID	Pet	sample wt	28.4 g
type	tincture	order	4699
lab ID	9FJ47	sample date	6/12/2019
unit	mL	unit weight	0.9 g

### Methods

method	equipment
weights	MA9FM AUX120.1
potency	PO9FM LC-2030
terpenes	TE9FM QP2020/HS20
pesticides	PE9FM LC-8060
mycotoxins	MY9FM LC-8060
microbial	MD9FS Hardy Diag
solvents	SO9FM QP2020/HS20
metals	ME9FM ICPMS2030

### tincture



Potency	per mL	estimated error	Terpenes	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0.1%	.1 mg ±0.0mg	terpenes not tested / not required				
Δ <sup>9</sup> -tetrahydrocannabinol (Δ <sup>9</sup> THC)	ND	ND ±0.0mg					
Δ <sup>8</sup> -tetrahydrocannabinol (Δ <sup>8</sup> THC)	ND	ND ±0.0mg					
tetrahydrocannabinol (THCv)	ND	ND ±0.0mg					
cannabidiolic acid (CBDa)	0%	0 mg ±0.0mg					
cannabidiol (CBD)	1.02%	9.7 mg ±0.1mg					
cannabivarin (CBDv)	0.1%	.1 mg ±0.0mg					
cannabigeronic acid (CBGa)	ND	ND ±0.0mg					
cannabigerol (CBG)	ND	ND ±0.0mg					
cannabinol (CBN)	0%	0 mg ±0.0mg					
cannabichromene (CBC)	ND	ND ±0.0mg					

Solvents	MT limit	9FJ47	LOG	Pesticides (MT)	MT limit	9FJ47	LOG	Pesticides (other)	9FJ47	LOG
propane	5,000	0 ppm	<10ppm	abamectin	0.00 ppm	<10ppb		acophate	0.00 ppm	<10ppb
butanes	5,000	0 ppm	<10ppm	acequinocyl	0.00 ppm	<10ppb		acetamiprid	0.00 ppm	<10ppb
pentanes	5,000	0 ppm	<10ppm	bifenazate	0.00 ppm	<10ppb		aldicarb	0.00 ppm	<10ppb
hexanes	290	0 ppm	<10ppm	bifenthrin	0.00 ppm	<10ppb		azoxystrobin	0.00 ppm	<10ppb
cyclohexane	3,880	0 ppm	<10ppm	chloromequat cl.	0.00 ppm	<10ppb		boscalid	0.00 ppm	<10ppb
heptanes	5,000	0 ppm	<10ppm	cyfluthrin	0.00 ppm	<80ppb		carbaryl	0.00 ppm	<10ppb
methanol	3,000	0 ppm	<10ppm	diaminocidide	0.00 ppm	<10ppb		carbuturan	0.00 ppm	<10ppb
isopropanol	5,000	0 ppm	<10ppm	etoxazole	0.00 ppm	<10ppb		chlorantraniliprole	0.00 ppm	<10ppb
acetone	5,000	0 ppm	<10ppm	fenoxycarb	0.00 ppm	<10ppb		chlorpyrifos	0.00 ppm	<10ppb
ethyl acetate	5,000	0 ppm	<10ppm	imazalil	0.00 ppm	<10ppb		clofentazine	0.00 ppm	<10ppb
benzene	2	0 ppm	<0.2ppm	imidacloprid	0.00 ppm	<10ppb		cypermethrin	0.00 ppm	<10ppb
toluene	890	0 ppm	<10ppm	myclobutanil	0.00 ppm	<10ppb		diazinon	0.00 ppm	<10ppb
xylene	2,170	0 ppm	<10ppm	paclobutrazol	0.00 ppm	<10ppb		dichlorvos	0.32 ppm	<10ppb
chloroform	2	0 ppm	<0.2ppm	pyrethrins	0.00 ppm	<10ppb		dimethoate	0.00 ppm	<10ppb
dichloromethane	600	0 ppm	<10ppm	spinosad	0.00 ppm	<10ppb		etofenprox	0.00 ppm	<10ppb
				spiromesifen	0.00 ppm	<10ppb		fenpyroximate	0.00 ppm	<10ppb
				spirotetramat	0.00 ppm	<10ppb		flupyrifamid	0.00 ppm	<10ppb
				trifloxystrobin	0.00 ppm	<10ppb		flonicamid	0.00 ppm	<10ppb

Toxic Metals	MT limit	9FJ47	LOG
arsenic	10 ppm	0.0 ppm	<1ppm
cadmium	4.1 ppm	0.0 ppm	<1ppm
lead	8 ppm	0.0 ppm	<1ppm
mercury	2.0 ppm	0.0 ppm	<1ppm

### Comments

Microbial	MT limit	9FJ47	LOG
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
<i>Salmonella</i> sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<100 CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

All testing was completed onsite at 6073 US93N, Olney MT. Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = (cannabinoid)<sub>9FJ47</sub> x volume<sub>9FJ47</sub> / m<sub>9FJ47</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>9FJ47</sub> / m<sub>9FJ47</sub>. Decarboxylated cannabinoid concentration is calculated from the equation XXX<sub>9FJ47</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; this is combined with error from weighing and dilution using the propagation of error formula s<sub>y</sub><sup>2</sup> = Σ(∂f/∂x)<sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>0.975, n-1</sub> x s<sub>y</sub>. Sampling error is not

Certified by:

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fenoxycarb	0.00 ppm	<10ppb
imazalil	0.00 ppm	<10ppb
imidacloprid	0.00 ppm	<10ppb
myclobutanil	0.00 ppm	<10ppb
paclobutrazol	0.00 ppm	<10ppb
pyrethrins	0.00 ppm	<10ppb
spinosad	0.00 ppm	<10ppb
spiromesifen	0.00 ppm	<10ppb
spirotetramat	0.00 ppm	<10ppb
trifloxystrobin	0.00 ppm	<10ppb
acophate	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
carbuturan	0.00 ppm	<10ppb
chlorantraniliprole	0.00 ppm	<10ppb
chlorpyrifos	0.00 ppm	<10ppb
clofentazine	0.00 ppm	<10ppb
cypermethrin	0.00 ppm	<10ppb
diazinon	0.00 ppm	<10ppb
dichlorvos	0.32 ppm	<10ppb
dimethoate	0.00 ppm	<10ppb
etofenprox	0.00 ppm	<10ppb
fenpyroximate	0.00 ppm	<10ppb
flupyrifamid	0.00 ppm	<10ppb
flonicamid	0.00 ppm	<10ppb
fludoxonil	0.00 ppm	<10ppb
hexythiazox	0.00 ppm	<10ppb
kresoxym-methyl	0.00 ppm	<10ppb
malathion	0.00 ppm	<10ppb
metalaxyl	0.00 ppm	<10ppb
methiocarb	0.00 ppm	<10ppb
methomyl	0.00 ppm	<10ppb
oxamyl	0.00 ppm	<10ppb
permethrin	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
sproxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb