decarb total

0%



total cannabinoids

99.6%

100

CBD THC 99.07% 0.00% 99.04%

Laboratories

Sample Handling

test ID sample date 5/16/19 2:29 PM labID **9VD02** order 4472 weight source

Solvents

Methods	method	equipment	
weights	MA9VM	AUX120.1	
potency	PO9VM	LC-2030C	
terpenes	TE9VM	QP2020/HS20	
pesticides	PE9VM	LC-8060	
mycotoxins	MY9VM	LC-8060	
microbial	MI9VDS	Hardy Diag	
solvents	SO9VM	QP2020/HS-2	
metals	ME9VM	ICPMS2030	

isolate



Pesticides (other)

9VD02

not tested /

not required

100

Potency	%	estimated error	Terpenes
tetrahydrocannabolic acid (THCa)	ND	± 0.02 %	
Δ^9 -tetrahydrocannabinol (Δ^9 THC)	ND	± 0.02 %	
Δ^{8} -tetrahydrocannabinol (Δ^{8} THC)	ND	± 0.02 %	to.
tetrahydrocannabivarin (THCv)	ND	± 0.02 %	te
cannabidiolic acid (CBDa)	.21%	± 0.05 %	no
cannabidiol (CBD)	98.86%	± 1.04 %	
cannabidivarin (CBDv)	.4%	± 0.07 %	
cannabigerolic acid (CBGa)	ND	± 0.02 %	
cannabigerol (CBG)	ND	± 0.02 %	
cannabinol (CBN)	.13%	± 0.04 %	
cannabichromene (CBC)	ND	± 0.02 %	

9VD02

terpenes not tested / not required

MT limit

not tested / not required

9VD02

100

Pesticides (MT)

pesticides

estimated

propane	5,000	0 ppm	<10ppm
butanes	5,000	0 ppm	<10ppm
pentanes	5,000	2522 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

MT limit

Toxic Metals MT limit 9VD02 LOQ

Comments

metals not tested / not required

Microbial 9VD02 MT limit LOQ

microbial not tested

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calcuated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXXa + 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_g^2 = $\Sigma(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) $\pm\,t_{\text{CL90}}\,x\,s_g$. Sampling error is not considered in error calculations.

Certified by:

Ron Brost, PhD PEng (Chem)

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