

Certificate of Analysis

Product Name: LivLabs HydroPro Citrus Mint 750 mg	Product No.: LIV-6-008-2-30
	Country of Origin: USA
Lot No.: 20194K11	Serving Size: 1 mL
	Manufacture Date: 10/06/2020
Product Packaging: 30 mL bottle/dropper	Report Date: 10/28/2020

Analyte	Test Method	Acceptable Limit	Test Results
Physical			
Appearance	Visual	Liquid	Conforms
Color	Visual	Milky, tan color	Conforms
Odor	Organoleptic	Minty orange	Conforms
Potency			
CBD- Cannabidiol	MSP-7.5.1.4	NLT 24 mg/mL	25 mg/mL
CBG- Cannabigerol	MSP-7.5.1.4	NLT 1 mg/mL	1 mg/mL
Total THC (delta 9 THC and THC-A)	MSP-7.5.1.4	0.1% w/w	None detected
Impurities			
Pesticides	MSP-7.5.1.8	Below action level limits	Conforms
Microbiological Pathogens			
Ochratoxin A	MSP-7.5.1.10	0 ppb	None detected
Aflatoxins	MSP-7.5.1.10	0 ppb	None detected
Escherichia coli	MSP-7.5.1.10	Absent/10 mL	None detected
Salmonella	MSP-7.5.1.10	Absent /10 mL	None detected
Yeasts & Molds	MSP-7.5.1.10	NMT 10 ² cfu/mL	Conforms
Heavy Metals			
Arsenic	MSP-7.5.1.4	NMT 1.5 ppm	Conforms
Cadmium	MSP-7.5.1.4	NMT 0.3 ppm	Conforms
Lead	MSP-7.5.1.4	NMT 1.0 ppm	Conforms
Mercury	MSP-7.5.1.4	NMT 0.5 ppm	Conforms

NLT= No Less Than; NMT= No More Than; Cannabinoids LOQ= 1 ppb; Pesticides LOQ= 0.05 mcg/g

Quality Control: 

Date: 10/28/2020

Quality Assurance: 

Date: 10/28/2020

0KE77
certificate ID

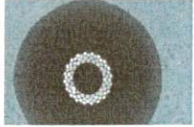
LivLabs HydroPro750

Lot# 20194K11

prod. date 7/31/2020

LaCore Nutraceuticals

7USC1639 Certificate of Analysis



total cannabinoids **per**
801.4mg **30mL**

THC‡ ND
CBD‡ 754.5mg

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

Stillwater
Laboratories



Potency	MSP-7.5.1.4	per 30mL	LOD	LOQ	error (95%CI k=2)
total cannabinoids		801.4mg	0.67	2.00	±20.34mg
total THC		ND	0.67	2.00	±2.00mg
total CBD		754.5mg	0.67	2.00	±19.27mg
tetrahydrocannabinolic acid (THCa)		ND	0.68	2.03	±2.03mg
Δ9-tetrahydrocannabinol (Δ9 THC)		ND	0.63	1.90	±1.90mg
Δ8-tetrahydrocannabinol (Δ8 THC)		ND	0.85	2.56	±2.56mg
tetrahydrocannabivarin (THCv)		ND	0.71	2.12	±2.12mg
cannabidiolic acid (CBDA)		ND	0.59	1.76	±1.76mg
cannabidiol (CBD)		754.5mg	0.67	2.01	±19.28mg
cannabivarin (CBDV)		6.8mg	0.67	2.00	±2.16mg
cannabigerolic acid (CBGA)		ND	0.60	1.79	±1.79mg
cannabigerol (CBG)		40.1mg	0.73	2.18	±3.10mg
cannabinol (CBN)		ND	0.37	1.10	±1.10mg
cannabichromene (CBC)		ND	0.67	2.00	±2.00mg

Terpenes	MSP-7.5.1.6	result
total terpenes		0.608%
caryophyllene		0.065%
humulene		0.004%
terpinolene		0.382%
ocimene		0.027%
beta pinene		ND
alpha pinene		ND
limonene		<LOQ
myrcene		ND
linalool		ND
linalool		0.065%
β-myrcene		0.004%
D-limonene		0.382%
α-pinene		0.027%
β-pinene		ND
ocimene		<LOQ
terpinolene		ND
α-humulene		0.026%
β-caryophyllene		0.102%
α-bisabolol		ND
camphene		ND
Δ3-carene		ND
caryophyllene oxide		ND
para-cymene		ND
eucalyptol		ND
geraniol		ND
guaiol		ND

Solvents	MSP-7.5.1.7	result	limit	LOD	LOQ	error	pass/fail
Dichloroethane		ND	0 ppm	0.51	1.51	±1.5 ppm	PASS
Acetone		ND	5000 ppm	0.71	2.01	±2.0 ppm	PASS
Acetonitrile		ND	410 ppm	0.61	1.81	±1.8 ppm	PASS
Benzene		ND	0 ppm	0.01	0.11	±0.1 ppm	PASS
Butane		ND	5000 ppm	1.41	4.11	±4.1 ppm	PASS
Chloroform		ND	0 ppm	0.11	0.21	±0.2 ppm	PASS
Cyclohexane		ND	0 ppm	0.51	1.51	±1.5 ppm	PASS
Ethanol		ND	5000 ppm	0.71	2.11	±2.1 ppm	PASS
Heptane		ND	5000 ppm	0.41	1.21	±1.2 ppm	PASS
Hexane		ND	290 ppm	0.51	1.51	±1.5 ppm	PASS
Isopropyl alcohol		ND	5000 ppm	0.61	1.81	±1.8 ppm	PASS
Methanol		114 ppm	3000 ppm	0.51	1.51	±4.4 ppm	PASS
Pentane		ND	5000 ppm	0.21	0.61	±0.6 ppm	PASS
Propane		ND	5000 ppm	0.51	1.51	±1.5 ppm	PASS
Toluene		ND	890 ppm	0.31	0.91	±0.9 ppm	PASS
Xylenes		ND	2170 ppm	0.31	1.01	±1.0 ppm	PASS

Pesticides	MSP-7.5.1.8	result	limit	LOD	LOQ	error	pass/fail
Chlorpyrifos		ND	0.0 ppm	0.031	0.092	±0.092 ppm	PASS
Clofentezine		ND	0.5 ppm	0.006	0.017	±0.017 ppm	PASS
Coumaphos		ND	0.0 ppm	0.004	0.012	±0.012 ppm	PASS
Cyfluthrin		ND	1.0 ppm	0.006	0.017	±0.017 ppm	PASS
Cypermethrin		ND	1.0 ppm	0.004	0.012	±0.012 ppm	PASS
Daminozide		ND	0.0 ppm	0.021	0.063	±0.063 ppm	PASS
Dichlorvos		ND	0.0 ppm	0.011	0.032	±0.032 ppm	PASS
Diazinon		ND	0.2 ppm	0.001	0.003	±0.003 ppm	PASS
Dimethoate		ND	0.0 ppm	0.002	0.005	±0.005 ppm	PASS
Etoxazole		ND	1.5 ppm	0.003	0.008	±0.008 ppm	PASS
Fenoxycarb		ND	0.0 ppm	0.003	0.008	±0.008 ppm	PASS
Fenprothiopyridate		ND	2.0 ppm	0.001	0.003	±0.003 ppm	PASS
Fipronil		ND	0.0 ppm	0.006	0.017	±0.017 ppm	PASS
Fonicamid		ND	2.0 ppm	0.074	0.222	±0.222 ppm	PASS
Fludioxonil		ND	30.0 ppm	0.005	0.015	±0.015 ppm	PASS
Hexythiazox		ND	2.0 ppm	0.007	0.021	±0.021 ppm	PASS
Imazalil		ND	0.0 ppm	0.005	0.015	±0.015 ppm	PASS
Imidacloprid		ND	3.0 ppm	0.001	0.003	±0.003 ppm	PASS
Malathion		ND	5.0 ppm	0.004	0.012	±0.012 ppm	PASS
Metaxyl		ND	15.0 ppm	0.006	0.017	±0.017 ppm	PASS
Methiocarb		ND	0.0 ppm	0.003	0.008	±0.008 ppm	PASS
Methomyl		ND	0.1 ppm	0.004	0.013	±0.013 ppm	PASS
Methyl parathion		ND	0.0 ppm	0.001	0.002	±0.002 ppm	PASS
Mevinphos		ND	0.0 ppm	0.004	0.012	±0.012 ppm	PASS
Myclobutanil		ND	9.0 ppm	0.001	0.002	±0.002 ppm	PASS
Naled		ND	0.5 ppm	0.004	0.012	±0.012 ppm	PASS
Oxamyl		ND	0.2 ppm	0.002	0.005	±0.005 ppm	PASS
Pacllobutrazol		ND	0.0 ppm	0.002	0.006	±0.006 ppm	PASS
Permethrin		ND	20.0 ppm	0.007	0.022	±0.022 ppm	PASS
Phosmet		ND	0.2 ppm	0.002	0.007	±0.007 ppm	PASS
Piperonylbutoxide		ND	8.0 ppm	0.008	0.023	±0.023 ppm	PASS
Prallethrin		ND	0.4 ppm	0.003	0.008	±0.008 ppm	PASS
Propiconazole		ND	20.0 ppm	0.003	0.008	±0.008 ppm	PASS
Propoxur		ND	0.0 ppm	0.004	0.013	±0.013 ppm	PASS
Pyrethrin		ND	1.0 ppm	0.002	0.006	±0.006 ppm	PASS
Pyridaben		ND	3.0 ppm	0.001	0.002	±0.002 ppm	PASS
Spinetoram		ND	3.0 ppm	0.003	0.008	±0.008 ppm	PASS
Spinosad		ND	3.0 ppm	0.005	0.015	±0.015 ppm	PASS
Spiromesifen		ND	12.0 ppm	0.002	0.007	±0.007 ppm	PASS
Spirotetramat		ND	13.0 ppm	0.002	0.005	±0.005 ppm	PASS
Spiroxamine		ND	0.0 ppm	0.001	0.002	±0.002 ppm	PASS
Tebuconazole		ND	2.0 ppm	0.004	0.011	±0.011 ppm	PASS
Thiacloprid		ND	0.1 ppm	0.001	0.002	±0.002 ppm	PASS
Thiamethoxam		ND	4.5 ppm	0.002	0.007	±0.007 ppm	PASS
Trifloxystrobin		ND	30.0 ppm	0.002	0.005	±0.005 ppm	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Microbial	MSP-7.5.1.10	result	limit	LOD	LOQ	error	pass/fail
Ochratoxin A		ND	20 ppb	0.31	0.91	±0.9 ppb	PASS
Aflatoxin B1B2G1G2		ND	20 ppb	0.31	1.01	±1.0 ppb	PASS
E coli		ND	0CFU	0.01	0.11	±0.1CFU	PASS
Salmonella sp. molds		ND	0CFU	0.01	0.11	±0.1CFU	PASS
molds		ND	10000CFU	1.61	4.71	±4.7CFU	PASS

Metals	MSP-7.5.1.11	result	limit	LOD	LOQ	error	pass/fail
Arsenic		ND	1500 ppb	6.61	19.71	±19.7 ppb	PASS
Cadmium		ND	500 ppb	7.11	21.21	±21.2 ppb	PASS
Lead		ND	500 ppb	11.01	33.11	±33.1 ppb	PASS
Mercury		ND	300 ppb	5.51	16.61	±16.6 ppb	PASS

Pesticides	MSP-7.5.1.8	result	limit	LOD	LOQ	error	pass/fail
Abamectin		ND	0.3 ppm	0.005	0.016	±0.016	PASS
Acephate		ND	5.0 ppm	0.006	0.017	±0.017	PASS
Acequinocyl		ND	4.0 ppm	0.005	0.014	±0.014	PASS
Acetamiprid		ND	5.0 ppm	0.004	0.011	±0.011	PASS
Aldicarb		ND	0.0 ppm	0.002	0.005	±0.005	PASS
Azoxystrobin		ND	40.0 ppm	0.001	0.004	±0.004	PASS
Bifenazate		ND	5.0 ppm	0.001	0.004	±0.004	PASS
Bifenthrin		ND	0.5 ppm	0.001	0.002	±0.002	PASS
Boscalid		ND	10.0 ppm	0.015	0.046	±0.046	PASS
Carbaryl		ND	0.5 ppm	0.006	0.018	±0.018	PASS
Carbofuran		ND	0.0 ppm	0.001	0.004	±0.004	PASS
Chloanthraniliprole		ND	40.0 ppm	0.015	0.044	±0.044	PASS
Chlorfenapyr		ND	0.0 ppm	0.004	0.012	±0.012	PASS

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director

Stillwater Laboratories Inc.

MT License L0001, L00007
6073 US93N Suite 5
Olney MT 59927
406-881-2019



ISO/IEC 17025:2017



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

* All testing was completed onsite at 6073 US93N, Olney MT ** Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} × volume_{dilution} / m_{dry}. Terpene concentration is calculated: [terpene] = (terpene mass)_{GCMS} / m_{dry}. *** Decarboxylated cannabinoid concentration is calculated XXX_{total} = 0.877 × XXX_a + 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_y² = Σ(∂f/∂i)²s_i² where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL90} × s_y. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed