Phyto-farma Labs
49 John Hicks Drive
Warwick, NY 10990
Permit#: OCM-CPL-2022-00004
Phone: 845-988-0937

Compliance

Certificate Of Analysis

Client Name: Hudson Valley Hemp Company, LLC

Contact Name: Lucas Seymour

Address: 67 Pine Wood Rd
Hudson, NY 12534

Phone: 518-567-2247

License Number: OCM-AUCC-22-000064/OCM-AUCP-22-000019

Sample Description: Boost Drop Pouch

Lot Number: BST5DNY23348-P

Regulatory Category: Adult Use

Sample Matrix: Extracted

Delivery Method: Oral

Sample Type: Edible

Sample Subtype: Tablet

Sampling Site: 67 Pine Wood Rd, Hudson NY 12534

Sampling Date and Time: 02/29/2024 10:46 AM

Results Summary

Average Cannabinoid Profile	
Terpenes	
Trace Metals	PASS
Mycotoxins	PASS
Pesticides LC	PASS
Pesticides GC	PASS
Residual Solvents	PASS
Microbial Impurities (MDG for STEC, Salmonella, Asp sp.)	PASS
Microbial Impurities (Total Aerobic Bacteria/CDP-TC)	PASS
Microbial Impurities (Total Yeast and Mold/CDP-YMR)	PASS
Water Activity	PASS

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Average Cannabinoid Profile

Date analyzed: 03/04/2024 **Method:** NY.SOP.T.40.260 **Analyst:** Stephanie Knapp

Date started: 03/02/2024 09:12 AM

Analyte	LOQ (µg/mL)	Average (% w/w)	Average (mg/serving)	Homogeneity Pass/Fail†
Cannabichromene (CBC)	0.5	0.01	0.05	
Cannabidiol (CBD)	0.5	<LOQ	0.02	
Cannabidivarin (CBDV)	0.5	<LOQ	0.01	
Cannabigerol (CBG)	0.5	0.01	0.08	
Cannabigerolic acid (CBGA)	0.5	<LOQ	<LOQ	
Cannabinadiolic acid (CBDA)	0.5	<LOQ	0.01	
Cannabinol (CBN)	0.5	0.02	0.15	
Tetrahydrocannabinolic acid (THCA)	0.5	<LOQ	<LOQ	
Tetrahydrocannabivarin (THCV)	0.5	<LOQ	0.03	
Tetrahydrocannabivarinic Acid (THCVA)	0.5	<LOQ	<LOQ	
Δ10-THC-RR	0.5	<LOQ	<LOQ	
Δ10-THC-RS	0.5	<LOQ	<LOQ	
Δ8-THC	0.5	<LOQ	<LOQ	
Δ9-THC	0.5	0.8	5.3	
Total Active Cannabidiol (CBD)	-	<LOQ	0.03	
Total Active Cannabigerol (CBG)	-	0.01	0.08	
Total Active Tetrahydrocannabinol (THC)	-	0.8	5.3	PASS
Total Active Tetrahydrocannabivarin (THCV)	-	<LOQ	0.03	
Total Active Cannabinoids	-	0.85	5.66	
			Overall Status	PASS

†Concentration of individual samples must be ±25% of the mean concentration for marketed cannabinoids

Note: Total Active CBD = CBD + (0.877 x CBDA); Total Active CBG = CBG + (0.878 x CBGA); Total Active THC = (Δ9THC + Δ8THC + Δ10THC-RS + Δ10THC-RR) + (0.877 x THCA); Total Active THCV = THCV + (0.867 x THCVA)

Analyzed by HPLC

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Terpenes

Date analyzed: 03/05/2024 **Method:** NY.SOP.T.40.090 **Analyst:** Stephanie Knapp

Date started: 02/29/2024 02:29 PM

Analyte	Result (%w/w)	LOQ
3-Carene	<LOQ	0.02
alpha-Bisabolol	<LOQ	0.02
alpha-Humulene	<LOQ	0.03
alpha-Phellandrene	<LOQ	0.03
alpha-Pinene	<LOQ	0.02
alpha-Terpinene	<LOQ	0.01
alpha-Terpineol	<LOQ	0.02
beta-Myrcene	<LOQ	0.03
beta-Pinene	<LOQ	0.03
Borneol	<LOQ	0.02
Camphene	<LOQ	0.02
Camphor	<LOQ	0.02
Caryophyllene oxide	<LOQ	0.03
Cedrene	<LOQ	0.02
Cedrol	<LOQ	0.03
cis-Nerolidol	<LOQ	0.03
cis-Ocimene	<LOQ	0.03
Eucalyptol	<LOQ	0.04
Farnesene	<LOQ	0.04
Fenchol	<LOQ	0.02
Fenchone	<LOQ	0.03
gamma-Terpinene	<LOQ	0.02
gamma-Terpineol	<LOQ	0.02
Geraniol	<LOQ	0.02
Geranyl Acetate	<LOQ	0.03

Guaiol	<LOQ	0.03
Isoborneol	<LOQ	0.02
Isopulegol	<LOQ	0.03
Limonene	<LOQ	0.04
Linalool	<LOQ	0.02
Menthol	<LOQ	0.02
Nerol	<LOQ	0.03
Pulegone	<LOQ	0.03
Sabinene	<LOQ	0.02
Sabinene Hydrate	<LOQ	0.02
Terpinolene	<LOQ	0.02
trans-b-Ocimene	<LOQ	0.02
trans-Caryophyllene	<LOQ	0.03
trans-Nerolidol	<LOQ	0.04
Valencene	<LOQ	0.03
TOTAL (%)	0	

Analyzed by GCMS

V151.15

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Certificate Of Analysis

Trace Metals — PASS

Date analyzed: 03/05/2024 **Method:** NY.SOP.T.40.050 **Analyst:** Moni Kaneti

Date started: 03/05/2024 07:28 AM

Analyte	Result (µg/g)	LOQ	Allowable Limit	Pass/Fail
Antimony (Sb)	<LOQ	0.13	120	PASS
Arsenic (As)	<LOQ	0.07	1.5	PASS
Cadmium (Cd)	<LOQ	0.06	0.5	PASS
Chromium (Cr)	<LOQ	0.36	1100	PASS
Copper (Cu)	<LOQ	0.39	300	PASS
Lead (Pb)	<LOQ	0.08	0.5	PASS
Mercury (Hg)	<LOQ	0.01	3	PASS
Nickel (Ni)	<LOQ	0.11	20	PASS
			Overall Status	PASS

Analyzed by ICP-MS

V114.36

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Certificate Of Analysis

Mycotoxins PASS

Date analyzed: 03/05/2024 **Method:** NY.SOP.T.40.180 **Analyst:** Destiny Ribadeneyra

Date started: 03/04/2024 09:07 AM

Analyte	Result (µg/g)	LOQ (µg/g)	Allowable Limit	Pass/Fail
Aflatoxin B1	<LOQ	0.001	0.02	PASS
Aflatoxin B2	<LOQ	0.002	0.02	PASS
Aflatoxin G1	<LOQ	0.001	0.02	PASS
Aflatoxin G2	<LOQ	0.002	0.02	PASS
Sum of Aflatoxins	0	-	0.02	PASS
Ochratoxin A	<LOQ	0.002	0.02	PASS
			Overall Status	PASS

Analysis Instrument *30 LC-MS TQ*

V141.7

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Pesticides LC — PASS

Date analyzed: 03/04/2024 **Method:** NY.SOP.T.040.270 **Analyst:** Stephanie Knapp

Date started: 02/29/2024 03:20 PM

Analyte	Result (µg/g)	LOQ	Allowable Limit	Pass/Fail
Abamectin	<LOQ	0.02	0.5	PASS
Acephate	<LOQ	0.01	0.4	PASS
Acequinocyl	<LOQ	0.02	2	PASS
Acetamiprid	<LOQ	0.01	0.2	PASS
Aldicarb	<LOQ	0.01	0.4	PASS
Azadirachtin	<LOQ	0.02	1	PASS
Azoxystrobin	<LOQ	0.01	0.2	PASS
Bifenazate	<LOQ	0.01	0.2	PASS
Bifenthrin	<LOQ	0	0.2	PASS
Boscalid	<LOQ	0.01	0.4	PASS
Carbaryl	<LOQ	0.01	0.2	PASS
Carbofuran	<LOQ	0.01	0.2	PASS
Chlorantraniliprole	<LOQ	0.01	0.2	PASS
Chlormequat chloride	<LOQ	0.02	1	PASS
Chlorpyrifos	<LOQ	0.01	0.2	PASS
Clofentezine	<LOQ	0.01	0.2	PASS
Daminozide	<LOQ	0	1	PASS
Diazinon	<LOQ	0.01	0.2	PASS
Dichlorvos	<LOQ	0.01	1	PASS
Dimethoate	<LOQ	0.01	0.2	PASS
Dimethomorph	<LOQ	0.01	1	PASS
Ethoprophos	<LOQ	0.01	0.2	PASS
Etofenprox	<LOQ	0	0.4	PASS
Etoxazole	<LOQ	0.01	0.2	PASS
Fenhexamid	<LOQ	0.01	1	PASS

Phyto-Farma Labs
a Smithers company

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Fenoxycarb	<LOQ	0.01	0.2	PASS
Fenpyroximate	<LOQ	0	0.4	PASS
Flonicamid	<LOQ	0.01	1	PASS
Fludioxonil	<LOQ	0.02	0.4	PASS
Hexythiazox	<LOQ	0	1	PASS
Imidacloprid	<LOQ	0.01	0.4	PASS
Indole-3-butyric acid	<LOQ	0.01	1	PASS
Kresoxim methyl	<LOQ	0.01	0.4	PASS
Malathion	<LOQ	0.01	0.2	PASS
Metalaxyl	<LOQ	0.01	0.2	PASS
Methiocarb	<LOQ	0	0.2	PASS
Methomyl	<LOQ	0.01	0.4	PASS
Mevinphos	<LOQ	0.02	1	PASS
MGK-264	<LOQ	0.01	0.2	PASS
Myclobutanil	<LOQ	0.01	0.2	PASS
Naled	<LOQ	0	0.5	PASS
Oxamyl	<LOQ	0.01	1	PASS
Paclobutrazol	<LOQ	0.01	0.4	PASS
Permethrins, Total	<LOQ	0.01	0.2	PASS
Phosmet	<LOQ	0.01	0.2	PASS
Piperonyl Butoxide	<LOQ	0.01	2	PASS
Prallethrin	<LOQ	0.01	0.2	PASS
Propiconazole	<LOQ	0.01	0.4	PASS
Propoxur	<LOQ	0.01	0.2	PASS
Pyrethrins	<LOQ	0.01	1	PASS
Pyridaben	<LOQ	0.01	0.2	PASS
Spinetoram, Total	<LOQ	0	1	PASS
Spinosad, Total	<LOQ	0.01	0.2	PASS
Spiromesifen	<LOQ	0.01	0.2	PASS
Spirotetramat	<LOQ	0.01	0.2	PASS
Spiroxamine	<LOQ	0	0.2	PASS

Tebuconazole	<LOQ	0.01	0.4	PASS
Thiacloprid	<LOQ	0.01	0.2	PASS
Thiamethoxam	<LOQ	0.01	0.2	PASS
			Overall Status	PASS

Analysis Instrument *30 Agilent LS-MS TQ*

V144.10

Pesticides GC PASS

Date analyzed: 03/05/2024 **Method:** NYS.SOP.T.040.271 **Analyst:** Destiny Ribadeneyra

Date started: 02/29/2024 03:38 PM

Analyte	Result (µg/g)	LOQ (µg/g)	Allowable Limit	Pass/Fail
Captan	<LOQ	0.3	1	PASS
Chlordane	<LOQ	0.07	1	PASS
Chlorfenapyr	<LOQ	0.1	1	PASS
Coumaphos	<LOQ	0.19	1	PASS
Cyfluthrin	<LOQ	0.11	1	PASS
Cypermethrin	<LOQ	0.24	1	PASS
Fipronil	<LOQ	0.17	0.4	PASS
Imazalil	<LOQ	0.17	0.2	PASS
Methyl parathion	<LOQ	0.09	0.2	PASS
Pentachloronitrobenzene	<LOQ	0.17	1	PASS
Trifloxystrobin	<LOQ	0.11	0.2	PASS
			Overall Status	PASS

Analysis Instrument *141 GC/TQ*

V177.8

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Certificate Of Analysis

Residual Solvents — PASS

Date analyzed: 03/06/2024 **Method:** NYS.SOP.T.040.272 **Analyst:** Stephanie Knapp

Date started: 02/29/2024 03:30 PM

Analyte	Result (µg/g)	LOQ	Allowable Limit	Pass/Fail
1,2-Dichloroethane (Ethylene dichloride, Ethylene chloride)	<LOQ	0.67	5	PASS
2-Propanol (Isopropanol, Isopropyl alcohol)	<LOQ	21.68	5000	PASS
Acetone (2-Propanone)	<LOQ	15.9	5000	PASS
Acetonitrile	<LOQ	0.85	410	PASS
Benzene	<LOQ	0.71	2	PASS
Butanes, Total	<LOQ	0.35	5000	PASS
Chloroform	<LOQ	0.54	60	PASS
Dichloromethane (Methylene chloride)	<LOQ	1.07	600	PASS
Dimethyl sulfoxide (DMSO)	<LOQ	0.66	5000	PASS
Ethanol (Ethyl alcohol)	<LOQ	10.02	5000	PASS
Ethyl acetate (Acetic acid ethyl ester)	<LOQ	18.45	5000	PASS
Ethyl ether (Diethyl ether, 1,1'-Oxybisethane)	<LOQ	0.44	5000	PASS
Heptane (n-Heptane)	<LOQ	0.36	5000	PASS
Hexanes, Total	<LOQ	0.39	290	PASS
Methanol (Methyl alcohol)	<LOQ	2.47	3000	PASS
Pentanes, Total	<LOQ	0.37	5000	PASS
Propane	<LOQ	0.53	5000	PASS
Toluene (Methylbenzene)	<LOQ	2.34	890	PASS
Trichloroethane (1,1,1-)	<LOQ	0.41	1500	PASS
Xylenes, Total (ortho-, meta-, para-)	<LOQ	2.65	2170	PASS
			Overall Status	PASS

Analyzed by GCMS

V148.12

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Certificate Of Analysis

Microbial Impurities (MDG for STEC, Salmonella, Asp sp.) PASS

Date analyzed: 03/05/2024 **Method:** NYS.SOP.T.40.273 **Analyst:** Lindsey Vento

Date started: 02/29/2024 03:49 PM

Microbial Species	Microbial Type	Detection Status	Pass/Fail
Shiga toxin-producing Escherichia coli	Bacteria	Not Detected	PASS
Salmonella species	Bacteria	Not Detected	PASS
Aspergillus flavus	Fungal	Not Detected	PASS
Aspergillus niger	Fungal	Not Detected	PASS
Aspergillus terreus	Fungal	Not Detected	PASS
Aspergillus fumigatus	Fungal	Not Detected	PASS
		Overall Status	PASS

Analysis Instrument 125 Agilent AriaMx Real-time PCR System

V182.3

Microbial Impurities (Total Aerobic Bacteria/CDP-TC) PASS

Date analyzed: 03/04/2024 **Method:** NYS.SOP.T.040.200 **Analyst:** Kristy Lee

Date started: 02/29/2024 04:05 PM

Result (CFU/g)	LOQ	Allowable Limit	Pass/Fail
<LOQ	5	10000	PASS

Analysis Instrument *87 Colony Counter*

V149.8

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Microbial Impurities (Total Yeast and Mold/CDP-YMR) PASS

Date analyzed: 03/04/2024 **Method:** NYS.SOP.T.040.200 **Analyst:** Destiny Ribadeneyra

Date started: 02/29/2024 04:06 PM

Microbial Species	Result (cfu/g)	LOQ	Allowable Limit	Pass/Fail
Mold Count	<LOQ	5	1000	PASS
Yeast Count	*<LOQ*	5	1000	PASS
Total Yeast and Mold	*<LOQ*		1000	PASS
			Overall Status	PASS

Analysis Instrument *87 Colony Counter*

V150.10

Water Activity PASS

Date analyzed: 03/04/2024 **Method:** NY.SOP.T.040.210 **Analyst:** Stephanie Knapp

Date started: 02/29/2024 03:32 PM

Result (Aw)	LOQ	Allowable Limit	Pass/Fail
0.28	0.25	0.85	PASS

Analyzed by Water Activity Meter

V131.63

Sample Comment: N/A

Alicia Caruso-Thomas

Alicia Caruso-Thomas
Laboratory Director
03/06/2024

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