Certificate of Analysis

Total Health & Wellness dba True Harvest

Phoenix, AZ 85043
jpastor@trueharvestco.com

Lic. #00000100DCWU00857159
Harvest Dates:

Sample: 2404TLL0145.0712

Strain: Grape Valley Kush x THCa
Parent Batch #: ; Batch#: GKxTHCA0411; Batch Size: 17 g
Sample Received: 04/26/2024; Report Created: 05/01/2024; Expires: 05/01/2025
Manufacturing Date:
Sampling: ; Environment:

Grape Valley Kush x THCa

Concentrates & Extracts, Infused/Enhanced Preroll
Dispensary License #: ; Manufacturing License #: ; Cultivation License #:

Safety

Pass Pesticides	**Pass** Microbials	**Pass** Mycotoxins
Pass Solvents	**Pass** Metals	**Not Tested** Foreign Matter

Cannabinoids

TPL_Potency_01

45.84% Total THC	ND Total CBD	53.16% Total Cannabinoids Q3

Analyte	LOQ	Mass	Mass	Qualifier
	%	%	mg/g	
THCa	0.10	51.13	511.3	
Δ9-THC	0.10	1.01	10.1	
Δ8-THC	0.10	ND	ND	
THCV	0.10	ND	ND	
CBDa	0.10	ND	ND	
CBD	0.10	ND	ND	
CBDV	0.10	ND	ND	
CBN	0.10	ND	ND	
CBGa	0.10	0.89	8.9	
CBG	0.10	0.13	1.3	
CBC	0.10	ND	ND	
Total		**53.16**	**531.6**	

Total THC = THCa * 0.877 + Δ9-THC
Total CBD = CBDa * 0.877 + CBD
Instrument: HPLC-DAD: ; Method: TPL_Potency_01

Terpenes

TPL_Terpenes_01

Cinnamon	Hops	Earthy

Analyte	LOQ	Mass	Mass	Qualifier
	%	%	mg/g	
β-Caryophyllene		0.1200	1.200	Q3
β-Myrcene		0.1000	1.000	Q3
Ocimene		0.1000	1.000	Q3
δ-Limonene		0.0900	0.900	Q3
β-Pinene		0.0700	0.700	Q3
α-Humulene		0.0400	0.400	Q3
Eucalyptol		0.0400	0.400	Q3
Linalool		0.0400	0.400	Q3
α-Bisabolol		0.0200	0.200	Q3
Caryophyllene Oxide		0.0200	0.200	Q3
3-Carene		<	<	Q3
α-Pinene		<	<	Q3
α-Terpinene		<	<	Q3
Camphene		<	<	Q3
cis-Nerolidol		<	<	Q3
γ-Terpinene		<	<	Q3
Geraniol		<	<	Q3
Guaiol		<	<	Q3
Isopulegol		<	<	Q3
p-Cymene		<	<	Q3
Terpinolene		<	<	Q3
trans-Nerolidol		<	<	Q3
Total		**0.6400**	**6.400**	

Instrument: GCMS; Method: TPL_Terp_01
Notes:

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Laboratory Director

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Pesticides TPL_Pesticides_01

Pass

Analyte	LOQ	Limit	Mass	Status	Qualifier
	PPM	PPM	PPM		
Abamectin	0.24	0.50	ND	Pass	M1, L1, R2, V1
Acephate	0.19	0.40	ND	Pass	
Acetamiprid	0.10	0.20	ND	Pass	
Aldicarb	0.19	0.40	ND	Pass	
Azoxystrobin	0.10	0.20	ND	Pass	
Bifenazate	0.10	0.20	ND	Pass	
Bifenthrin	0.10	0.20	ND	Pass	
Boscalid	0.19	0.40	ND	Pass	
Carbaryl	0.10	0.20	ND	Pass	
Carbofuran	0.10	0.20	ND	Pass	
Chlorantraniliprole	0.10	0.20	ND	Pass	
Chlorfenapyr	0.48	1.00	ND	Pass	M2
Chlorpyrifos	0.10	0.20	ND	Pass	
Clofentezine	0.10	0.20	ND	Pass	
Cyfluthrin	0.48	1.00	ND	Pass	
Cypermethrin	0.48	1.00	ND	Pass	M1, L1
Daminozide	0.48	1.00	ND	Pass	M1, V1
Diazinon	0.10	0.20	ND	Pass	
Dichlorvos	0.05	0.10	ND	Pass	
Dimethoate	0.10	0.20	ND	Pass	
Ethoprophos	0.10	0.20	ND	Pass	
Etofenprox	0.19	0.40	ND	Pass	
Etoxazole	0.10	0.20	ND	Pass	
Fenoxycarb	0.10	0.20	ND	Pass	M2
Fenpyroximate	0.19	0.40	ND	Pass	
Fipronil	0.19	0.40	ND	Pass	
Flonicamid	0.48	1.00	ND	Pass	
Fludioxonil	0.19	0.40	ND	Pass	

Analyte	LOQ	Limit	Mass	Status	Qualifier
	PPM	PPM	PPM		
Hexythiazox	0.48	1.00	ND	Pass	M2
Imazalil	0.10	0.20	ND	Pass	
Imidacloprid	0.19	0.40	ND	Pass	
Kresoxim Methyl	0.19	0.40	ND	Pass	
Malathion	0.10	0.20	ND	Pass	
Metalaxyl	0.10	0.20	ND	Pass	
Methiocarb	0.10	0.20	ND	Pass	
Methomyl	0.19	0.40	ND	Pass	
Myclobutanil	0.10	0.20	ND	Pass	
Naled	0.24	0.50	ND	Pass	
Oxamyl	0.48	1.00	ND	Pass	
Paclobutrazol	0.19	0.40	ND	Pass	
Permethrin	0.10	0.20	ND	Pass	
Phosmet	0.10	0.20	ND	Pass	
Piperonyl Butoxide	0.96	2.00	ND	Pass	
Prallethrin	0.10	0.20	ND	Pass	
Propiconazole	0.19	0.40	ND	Pass	
Propoxur	0.10	0.20	ND	Pass	
Pyrethrins	0.48	1.00	ND	Pass	M4
Pyridaben	0.10	0.20	ND	Pass	
Spinosad	0.10	0.20	ND	Pass	M2
Spiromesifen	0.10	0.20	ND	Pass	
Spirotetramat	0.10	0.20	ND	Pass	M1
Spiroxamine	0.19	0.40	ND	Pass	
Tebuconazole	0.19	0.40	ND	Pass	M2
Thiacloprid	0.10	0.20	ND	Pass	
Thiamethoxam	0.10	0.20	ND	Pass	
Trifloxystrobin	0.10	0.20	ND	Pass	M2

Instrument: LC-QQQ ; Method: TPL_Pesticides_01

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Heavy Metals — Pass

Analyte	LOQ	Limit	Mass	Status	Qualifier
	PPB	PPB	PPB		
Arsenic	200.0	400.0	ND	Pass	V1
Cadmium	200.0	400.0	<LOQ	Pass	
Lead	500.0	1000.0	<LOQ	Pass	
Mercury	100.0	200.0	<LOQ	Pass	

LOQ=Limit of Quantitation. The reported result is based on a simple weight with the applicable moisture content for that sample. Unless otherwise stated, all quality control samples performed within specifications established by the Laboratory. Instrument: ICPMS; Method: AOAC 2021.03

Residual Solvents — Pass

Analyte	LOQ	Limit	Mass	Status	Qualifier
	PPM	PPM	PPM		
Acetone	473.0	1000.0	ND	Pass	
Acetonitrile	194.0	410.0	ND	Pass	
Benzene	1.0	2.0	ND	Pass	
Butanes	591.3	5000.0	ND	Pass	
Chloroform	28.4	60.0	ND	Pass	
Dichloromethane	2833.8	600.0	ND	Pass	
Ethanol	2365.2	5000.0	ND	Pass	
Ethyl-Acetate	2365.2	5000.0	ND	Pass	
Ethyl-Ether	2365.2	5000.0	ND	Pass	
Heptane	2365.2	5000.0	ND	Pass	
Hexanes	137.2	290.0	ND	Pass	
Isopropyl-Acetate	2365.2	5000.0	ND	Pass	
Methanol	1419.1	3000.0	ND	Pass	
Pentanes	137.2	5000.0	ND	Pass	
2-Propanol	2365.2	5000.0	ND	Pass	
Toluene	421.0	890.0	ND	Pass	
Xylenes	94.6	2170.0	ND	Pass	

Performed by GCMS-HS SOP-004. Methods used per AZDHS R9-17-404.03 and the solvent limits set by AZDHS R9-17 Table 3.1. AZDHS approved method for residual solvents by GCMS-HS for all listed analytes. Subcontracted through DVT Registration Certificate Identification Number : 0000031LRCHX78341676

Microbials — Pass

Analyte	LOQ	Limit	Result	Status	Qualifier
	CFU/g	CFU/g	CFU/g		
E. Coli	10	100	<10	Pass	

Analyte	Limit	Result	Status	Qualifier
Salmonella	Detectable in 1g	Not Detected	Pass	
Aspergillus	Detectable in 1g	Not Detected	Pass	
Aspergillus fumigatus	Detectable in 1g	Not Detected	Pass	
Aspergillus niger	Detectable in 1g	Not Detected	Pass	
Aspergillus flavus	Detectable in 1g	Not Detected	Pass	
Aspergillus terreus	Detectable in 1g	Not Detected	Pass	

Instrument: qPCR/Plating; AOAC Methods 082102, 022202 and 2018.13

Mycotoxins — Pass

Analyte	LOQ	Limit	Mass	Status	Qualifier
	PPB	PPB	PPB		
B1	8.1	20.0	ND	Pass	
B2	8.1	20.0	ND	Pass	
G1	8.1	20.0	ND	Pass	
G2	8.1	20.0	ND	Pass	
Ochratoxin A	8.1	20.0	ND	Pass	
Total Aflatoxins	8.1	20.0	ND	Pass	

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B1 = Target analyte detected in calibration blank was above LOQ but the concentration of cannabinoid was blow LOQ,

B2 = Target analyte detected in calibration blank was above LOQ but was below the maximum allowable concentration.

D1 = The limit of quantitation and the sample results were adjusted to reflect sample dilution,

I1 = The relative intensity of a characteristic ion in a sample analyte exceeded the acceptance criteria with respect to the reference spectra, indicating interference,

L1 = The percent recovery of a laboratory control sample is greater than the acceptance limits in A.A.C 17 R9-17-404.03(K)(2)(C), but the sample's target analytes were not detected above the maximum allowed concentration,

M1 = The recovery from the matrix spike was high, but the recovery from the laboratory control sample was within acceptance criteria,

M2 = The recovery from the matrix spike was low, but the recovery from the laboratory control sample was within acceptance criteria,

M3 = The recovery from the matrix spike was unusable because the analyte concentration was disproportionate to the spike level, but the recovery from the laboratory control sample was within acceptance criteria,

M4 = The analysis of a spiked sample required a dilution such that the spike recovery calculation does not provide useful information, but the recovery from the associated laboratory control sample was within acceptance criteria,

M5 = The analyte concentration was determined by the method of standard addition, in which the standard is added directly to the aliquots of the analyzed sample,

N1 – A description of the variance is described in the final report of testing,

R1 = The relative percent difference for the laboratory control sample and duplicate exceeded the limit in A.A.C 17 R9-17-404.03(K)(3), but the recover in subsection A.A.C 17 R9-17-404.03 (K)(2) was within accepted criteria,

R2 = The relative percent difference for a sample and duplicated exceeded the limit in subsection A.A.C 17 R9-17-404.03 (O)

Q1 = Sample integrity was not maintained,

Q2 = The sample is heterogenous and sample homogeneity could not be readily achieved using routine laboratory practices

Q3 = Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317

V1 = The recovery from continuing calibration verification standards exceeded the acceptance limits denoted in A.C.C 17 R9-17-403.03(J)(1)(b), but the sample's target analytes were not detected above the maximum allowable concentrations for the analytes in the sample.

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