Certificate of Analysis

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Total Health & Wellness dba True Harvest

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Lic. #00000100DCWU00857159
Harvest Dates:

Sample: 2405TLL0165.0808

Strain: Grape Valley Kush x Smorgasbord
Parent Batch #: ; Batch#: GVSB240509; Batch Size: 17 g
Sample Received: 05/10/2024; Report Created: 05/17/2024; Expires: 05/17/2025
Manufacturing Date:
Sampling: ; Environment:

Grape Valley Kush x Smorgasbord

Concentrates & Extracts, Infused/Enhanced Preroll, Extraction Method: Ice/Water
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

38.77%	<LOQ	45.43%
Total THC	Total CBD	Total Cannabinoids Q3

Analyte	LOQ	Mass	Mass	Qualifier
	%	%	mg/g	
THCa	0.10	39.58	395.8	
Δ9-THC	0.10	4.07	40.7	
Δ8-THC	0.10	ND	ND	
THCV	0.10	ND	ND	
CBDa	0.10	<LOQ	<LOQ	
CBD	0.10	ND	ND	
CBDV	0.10	ND	ND	
CBN	0.10	ND	ND	
CBGa	0.10	1.54	15.4	
CBG	0.10	0.25	2.5	
CBC	0.10	ND	ND	
Total		**45.43**	**454.3**	

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		0.3440	3.440	Q3
β-Myrcene		0.2370	2.370	Q3
α-Humulene		0.2180	2.180	Q3
Ocimene		0.2150	2.150	Q3
Guaiol		0.1990	1.990	Q3
δ-Limonene		0.1930	1.930	Q3
Terpinolene		0.1510	1.510	Q3
β-Pinene		0.1460	1.460	Q3
Linalool		0.1420	1.420	Q3
γ-Terpinene		0.1330	1.330	Q3
Eucalyptol		0.0910	0.910	Q3
α-Bisabolol		0.0650	0.650	Q3
trans-Nerolidol		0.0370	0.370	Q3
α-Pinene		0.0110	0.110	Q3
Camphene		0.0080	0.080	Q3
Caryophyllene Oxide		0.0060	0.060	Q3
3-Carene		<	<	Q3
α-Terpinene		<	<	Q3
cis-Nerolidol		<	<	Q3
Geraniol		<	<	Q3
Isopulegol		<	<	Q3
p-Cymene		<	<	Q3
Total		**2.1960**	**21.960**	

Instrument: GCMS; Method: TPL_Terp_01
Notes:

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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	L1 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	M1 V1
Bifenthrin	0.10	0.20	ND	Pass	L1 M2
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	V1 L1 M1
Chlorpyrifos	0.10	0.20	ND	Pass	M2
Clofentezine	0.10	0.20	ND	Pass	
Cyfluthrin	0.48	1.00	ND	Pass	L1 M1
Cypermethrin	0.48	1.00	ND	Pass	L1 M1
Daminozide	0.48	1.00	ND	Pass	L1 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	L1 M2
Etoxazole	0.10	0.20	ND	Pass	L1
Fenoxycarb	0.10	0.20	ND	Pass	
Fenpyroximate	0.19	0.40	ND	Pass	
Fipronil	0.19	0.40	ND	Pass	M2
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	
Imazalil	0.10	0.20	ND	Pass	
Imidacloprid	0.19	0.40	ND	Pass	M1
Kresoxim Methyl	0.19	0.40	ND	Pass	
Malathion	0.10	0.20	ND	Pass	L1
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	L1
Permethrin	0.10	0.20	<LOQ	Pass	L1 M2
Phosmet	0.10	0.20	ND	Pass	
Piperonyl Butoxide	0.96	2.00	ND	Pass	
Prallethrin	0.10	0.20	ND	Pass	L1 M1
Propiconazole	0.19	0.40	ND	Pass	
Propoxur	0.10	0.20	ND	Pass	
Pyrethrins	0.48	1.00	ND	Pass	
Pyridaben	0.10	0.20	ND	Pass	
Spinosad	0.10	0.20	ND	Pass	I1
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	
Thiacloprid	0.10	0.20	ND	Pass	
Thiamethoxam	0.10	0.20	ND	Pass	
Trifloxystrobin	0.10	0.20	ND	Pass	

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	V1
Lead	500.0	1000.0	<LOQ	Pass	V1
Mercury	100.0	200.0	<LOQ	Pass	V1

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	492.1	1000.0	ND	Pass	
Acetonitrile	201.8	410.0	ND	Pass	
Benzene	1.0	2.0	ND	Pass	V1
Butanes	615.2	5000.0	ND	Pass	
Chloroform	29.5	60.0	ND	Pass	
Dichloromethane	295.3	600.0	ND	Pass	
Ethanol	2460.6	5000.0	ND	Pass	
Ethyl-Acetate	2460.6	5000.0	ND	Pass	
Ethyl-Ether	2460.6	5000.0	ND	Pass	
Heptane	2460.6	5000.0	ND	Pass	
Hexanes	142.7	290.0	ND	Pass	
Isopropyl-Acetate	2460.6	5000.0	ND	Pass	
Methanol	1476.4	3000.0	ND	Pass	
Pentanes	142.7	5000.0	ND	Pass	
2-Propanol	2460.6	5000.0	ND	Pass	
Toluene	474.0	890.0	ND	Pass	V1
Xylenes	98.4	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	I1
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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