



VVS Investments
 1039 E Carefree Hwy Suite E
 Phoenix, AZ 85085
 License #: 00000131DCYO00924714
 Sample ID: 2310SMAZ0184.0533
 Batch #: ALT101623HRT1



CERTIFICATE OF ANALYSIS
 License #: 00000020LCVT89602592

Certificate: 931

ALT101623HRT1 - Animal Tree Live Hash Rosin

Batch #: ALT101623HRT1 Sample ID: 2310SMAZ0184.0533
 Strain: Animal Tree Amount Received: 9.4 g
 Parent Batch #: Sample Type: Live Rosin
 Sample Collected: 10/19/2023 13:00:00 Received: 10/19/2023
 Published: 10/25/2023



COMPLIANCE FOR RETAIL

Regulated Analytes

Cannabinoid Profile (Q3) Tested	Microbial Contaminants Pass	Residual Solvents Pass
Pesticides, Fungicides, and Growth Regulators Pass	Mycotoxins Pass	Heavy Metals Pass

Additional Analytes (Not Regulated)

Terpenes Total (Q3) Tested	Moisture Analysis (Q3) Not Tested	Water Activity (Q3) Not Tested
Filth & Foreign (Q3) Not Tested	Homogeneity (Q3) Not Tested	

74.856% Total THC
0.171% Total CBD
ND CBN
0.201% CBG
86.344% Total Cannabinoids (Q3)

Ahmed Munshi
 Technical Laboratory Director

Smithers CTS Arizona LLC
 734 W Highland Avenue, 2nd Floor
 Phoenix, AZ 85013
 (602) 806-6930



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Cannabinoid Profile

HPLC

Tested

Sample Prep

Batch Date: 10/20/2023
 SOP: 418.AZ
 Batch Number: 204

Sample Analysis

Date: 10/25/2023
 SOP: 417.AZ - HPLC
 Sample Weight: 0.044 g
 Volume: 40 mL

Analyte	LOD (mg/g)	LOQ (mg/g)	Dil.	Actual % (w/w)	mg/g	Qualifier
CBC	0.293	0.888	1	<LOQ	<LOQ	
CBD	0.293	0.888	1	ND	ND	
CBDA	0.293	0.888	1	0.196	1.955	
CBDV	0.293	0.888	1	ND	ND	
CBG	0.293	0.888	1	0.201	2.014	
CBGA	0.293	0.888	1	1.445	14.452	
CBN	0.293	0.888	1	ND	ND	
d8-THC	0.293	0.888	1	ND	ND	
d9-THC	0.293	0.888	1	6.080	60.803	
THCA	0.293	0.888	1	78.422	784.215	
THCV	0.293	0.888	1	ND	ND	

Cannabinoid Totals	Actual % (w/w)	mg/g	Qualifier
Total THC	74.856	748.559	
Total CBD	0.171	1.714	
Total Cannabinoids	86.344	863.437	Q3

Total THC = THC + (0.877 x THCA) and Total CBD = CBD + (0.877 x CBDA)
 ND = Not Detected, NT = Not Tested, <LOQ = Below Limit of Quantitation

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Terpene Total

GC-FID **Tested (6.8089%)**

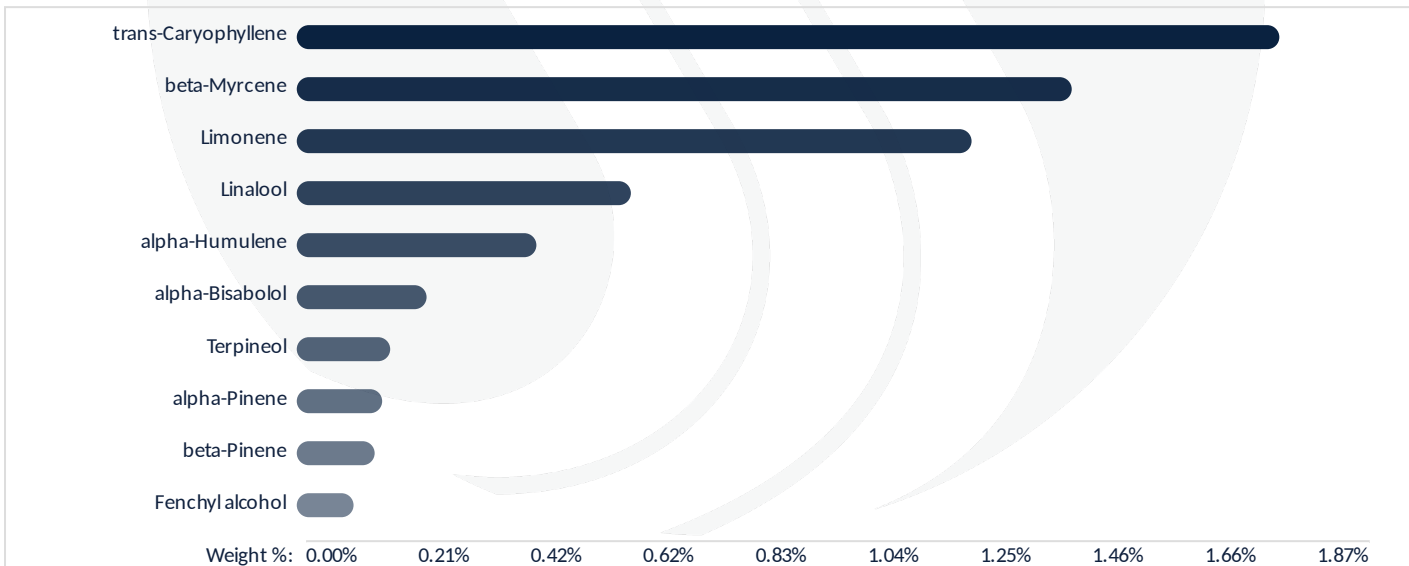
Sample Prep

Batch Date: 10/20/2023
 SOP: 419
 Batch Number: 203

Sample Analysis

Date: 10/25/2023
 SOP: 419 - GC-FID
 Sample Weight: 0.401 g
 Volume: 10 mL

Analyte	LOD / LOQ (%)	Dil.	Results (%)	Qualifier	Analyte	LOD / LOQ (%)	Dil.	Results (%)	Qualifier
alpha-Bisabolol	0.0010 / 0.0030	1	0.2473	Q3	gamma-Terpinene	0.0010 / 0.0030	1	<LOQ	Q3
alpha-Cedrene	0.0010 / 0.0030	1	ND	Q3	Geraniol	0.0010 / 0.0030	1	ND	Q3
alpha-Humulene	0.0010 / 0.0030	1	0.4565	Q3	Geranyl acetate	0.0010 / 0.0030	1	ND	Q3
alpha-Phellandrene	0.0010 / 0.0030	1	<LOQ	Q3	Guaiol	0.0010 / 0.0030	1	0.0069	Q3
alpha-Pinene	0.0010 / 0.0030	1	0.1627	Q3	Hexahydrothymol	0.0010 / 0.0030	1	0.0132	Q3
alpha-Terpinene	0.0010 / 0.0030	1	<LOQ	Q3	Isoborneol	0.0010 / 0.0030	1	ND	Q3
beta-Myrcene	0.0010 / 0.0030	1	1.4763	Q3	Isopulegol	0.0010 / 0.0030	1	ND	Q3
beta-Pinene	0.0010 / 0.0030	1	0.1484	Q3	Limonene	0.0010 / 0.0030	1	1.2855	Q3
Borneol	0.0010 / 0.0030	1	0.0359	Q3	Linalool	0.0010 / 0.0030	1	0.6365	Q3
Camphene	0.0010 / 0.0030	1	0.0392	Q3	Nerol	0.0010 / 0.0030	1	ND	Q3
Camphor	0.0010 / 0.0030	1	ND	Q3	Pulegone (+)	0.0010 / 0.0030	1	ND	Q3
3-Carene	0.0010 / 0.0030	1	ND	Q3	Sabinene Hydrate	0.0010 / 0.0030	1	ND	Q3
Caryophyllene oxide	0.0010 / 0.0030	1	0.0180	Q3	Terpineol	0.0010 / 0.0030	1	0.1780	Q3
Cedrol	0.0010 / 0.0030	1	0.0261	Q3	Terpinolene	0.0010 / 0.0030	1	0.0217	Q3
cis-Nerolidol	0.0010 / 0.0030	1	ND	Q3	trans-Caryophyllene	0.0010 / 0.0030	1	1.8718	Q3
cis-Ocimene	0.0010 / 0.0030	1	<LOQ	Q3	trans-Nerolidol	0.0010 / 0.0030	1	ND	Q3
Fenchyl alcohol	0.0010 / 0.0030	1	0.1082	Q3	trans-Ocimene	0.0010 / 0.0030	1	0.0232	Q3
Eucalyptol	0.0010 / 0.0030	1	ND	Q3	Valencene	0.0010 / 0.0030	1	0.0384	Q3
Fenchone	0.0010 / 0.0030	1	0.0151	Q3					



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Microbial Analysis
 Pass

Sample Prep

Batch Date: 10/23/2023
 SOP: 431.AZ
 Batch Number: 212

Sample Analysis

Date: 10/25/2023
 SOP: 431.AZ - TEMPO (MPN)
 Sample Weight: 1.025 g

Analyte	Allowable Criteria	Actual Result	Pass/Fail	Qualifier
E. coli	< 100 CFU/g	< 100 CFU/g	Pass	

Sample Prep

Batch Date: 10/23/2023
 SOP: 406.AZ
 Batch Number: 210

Sample Analysis

Date: 10/25/2023
 SOP: 406.AZ - qPCR (MG)
 Sample Weight: 1.024 g

Analyte	Allowable Criteria	Actual Result	Pass/Fail	Qualifier
Salmonella	Not Detected in One Gram	Not Detected in One Gram	Pass	

Sample Prep

Batch Date: 10/23/2023
 SOP: 406.AZ
 Batch Number: 210

Sample Analysis

Date: 10/25/2023
 SOP: 406.AZ - qPCR (MG)
 Sample Weight: 1.024 g

Analyte	Allowable Criteria	Actual Result	Pass/Fail	Qualifier
Aspergillus flavus	Not Detected in One Gram	Not Detected in One Gram	Pass	
Aspergillus fumigatus	Not Detected in One Gram	Not Detected in One Gram	Pass	
Aspergillus niger	Not Detected in One Gram	Not Detected in One Gram	Pass	
Aspergillus terreus	Not Detected in One Gram	Not Detected in One Gram	Pass	

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Residual Solvents
 HS-GC-MS **Pass**

Sample Prep

Batch Date: 10/20/2023
 SOP: 405.AZ
 Batch Number: 202

Sample Analysis

Date: 10/25/2023
 SOP: 405.AZ - HS-GC-MS
 Sample Weight: 0.052 g

Analyte	LOD / LOQ (ppm)	Dil.	Action Limit (ppm)	Results (ppm)	Qualifier	Analyte	LOD / LOQ (ppm)	Dil.	Action Limit (ppm)	Results (ppm)	Qualifier
Acetone	63 / 192	1	1000	ND		Heptane	321 / 962	1	5000	ND	
Acetonitrile	27 / 79	1	410	ND		Hexanes	46 / 139	1	290	ND	
Benzene	0.13 / 0.38	1	2	ND		Isopropyl acetate	321 / 962	1	5000	ND	
Butanes	160 / 481	1	5000	ND		Methanol	192 / 577	1	3000	ND	
Chloroform	4 / 12	1	60	ND		Pentanes	321 / 962	1	5000	ND	
Dichloromethane	38 / 115	1	600	ND		2-Propanol (IPA)	321 / 962	1	5000	ND	
Ethanol	321 / 962	1	5000	ND		Toluene	58 / 171	1	890	ND	
Ethyl acetate	321 / 962	1	5000	ND		Xylenes	279 / 835	1	2170	ND	
Ethyl ether	321 / 962	1	5000	ND							

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Heavy Metals

ICP-MS **Pass**

Sample Prep
 Batch Date: 10/23/2023
 SOP: 428.AZ
 Batch Number: 213

Sample Analysis
 Date: 10/25/2023
 SOP: 428.AZ - ICP-MS
 Sample Weight: 0.208 g
 Volume: 6 mL

Analyte	LOD (ppm)	LOQ (ppm)	Dil.	Action Limit (ppm)	Results (ppm)	Qualifier
Arsenic	0.019	0.192	10	0.4	ND	
Cadmium	0.019	0.192	10	0.4	ND	
Lead	0.019	0.481	10	1	<LOQ	
Mercury	0.019	0.096	10	0.2	ND	

Mycotoxin Analysis

LC-MS/MS **Pass**

Sample Prep
 Batch Date: 10/19/2023
 SOP: 432.AZ
 Batch Number: 191

Sample Analysis
 Date: 10/25/2023
 SOP: 424.AZ - LC-MS/MS
 Sample Weight: 0.583 g
 Volume: 6 mL

Analyte	LOD (ppb)	LOQ (ppb)	Dil.	Action Limit (ppb)	Results (ppb)	Qualifier
Total Aflatoxins	16.47	0.70	10	20	ND	
Aflatoxin B1	16.47	41.17	10	0	ND	
Aflatoxin B2	16.47	41.17	10	0	ND	
Aflatoxin G1	16.47	41.17	10	0	ND	
Aflatoxin G2	16.47	20.58	10	0	ND	
Ochratoxin A	41.17	41.17	10	20	ND	I1

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**Pesticides, Fungicides, and
 Growth Regulators**
 LC-MS/MS **Pass**

Sample Prep

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 SOP: 432.AZ
 Batch Number: 191

Sample Analysis

Date: 10/25/2023
 SOP: 424.AZ - LC-MS/MS
 Sample Weight: 0.583 g
 Volume: 6 mL

Analyte	LOD / LOQ (ppm)	Dil.	Action Limit (ppm)	Results (ppm)	Qualifier	Analyte	LOD / LOQ (ppm)	Dil.	Action Limit (ppm)	Results (ppm)	Qualifier
Abamectin B1a	0.342 / 1.029	10	0.5	ND	I1, M2	Hexythiazox	0.687 / 2.058	10	1	ND	M2
Acephate	0.276 / 0.823	10	0.4	ND		Imazalil	0.136 / 0.412	10	0.2	ND	I1, M2
Acetamiprid	0.136 / 0.412	10	0.2	ND		Imidacloprid	0.276 / 0.823	10	0.4	ND	
Aldicarb	0.276 / 0.823	10	0.4	ND		Kresoxim-methyl	0.276 / 0.823	10	0.4	ND	M2
Azoxystrobin	0.136 / 0.412	10	0.2	ND		Malathion	0.136 / 0.412	10	0.2	ND	
Bifenazate	0.136 / 0.412	10	0.2	ND		Metaxalyl	0.136 / 0.412	10	0.2	ND	
Bifenthrin	0.136 / 0.412	10	0.2	ND	I1, M2	Methiocarb	0.136 / 0.412	10	0.2	ND	
Boscalid	0.276 / 0.823	10	0.4	ND	M2	Methomyl	0.276 / 0.823	10	0.4	ND	
Carbaryl	0.136 / 0.412	10	0.2	ND		Myclobutanil	0.136 / 0.412	10	0.2	ND	M2
Carbofuran	0.136 / 0.412	10	0.2	ND		Naled	0.342 / 1.029	10	0.5	ND	M2
Chlorantraniliprole	0.136 / 0.412	10	0.2	ND		Oxamyl	0.687 / 2.058	10	1	ND	
Chlorfenapyr	0.687 / 2.058	10	1	ND	I1, M2 R1	Paclobutrazol	0.276 / 0.823	10	0.4	ND	M2
Chlorpyrifos	0.136 / 0.412	10	0.2	ND		Permethrins	0.136 / 0.412	10	0.2	ND	M2
Clofentezine	0.136 / 0.412	10	0.2	ND	M2	Phosmet	0.136 / 0.412	10	0.2	ND	
Cyfluthrin	0.687 / 2.058	10	1	ND	M2	Piperonyl Butoxide	1.371 / 4.117	10	2	ND	
Cypermethrin	0.687 / 2.058	10	1	ND	M2	Prallethrin	0.136 / 0.412	10	0.2	ND	
Daminozide	0.687 / 2.058	10	1	ND		Propiconazole	0.276 / 0.823	10	0.4	ND	
Diazinon	0.136 / 0.412	10	0.2	ND	M2	Propoxur	0.136 / 0.412	10	0.2	ND	
Dichlorvos	0.070 / 0.206	10	0.1	ND	M2	Pyrethrins	0.575 / 1.725	10	1	ND	I1
Dimethoate	0.136 / 0.412	10	0.2	ND		Pyridaben	0.136 / 0.412	10	0.2	ND	
Ethoprophos	0.136 / 0.412	10	0.2	ND	M2	Spinosad	0.136 / 0.412	10	0.2	ND	M2
Etofenprox	0.276 / 0.823	10	0.4	ND	M2	Spiromesifen	0.136 / 0.412	10	0.2	ND	
Etoxazole	0.136 / 0.412	10	0.2	ND		Spirotetramat	0.136 / 0.412	10	0.2	ND	
Fenoxycarb	0.136 / 0.412	10	0.2	ND	M2	Spiroxamine	0.276 / 0.823	10	0.4	ND	
Fenpyroximate	0.276 / 0.823	10	0.4	ND	M2	Tebuconazole	0.276 / 0.823	10	0.4	ND	
Fipronil	0.276 / 0.823	10	0.4	ND	M1	Thiacloprid	0.136 / 0.412	10	0.2	ND	
Fonicamid	0.687 / 2.058	10	1	ND		Thiamethoxam	0.136 / 0.412	10	0.2	ND	
Fludioxonil	0.276 / 0.823	10	0.4	ND	M2	Trifloxystrobin	0.136 / 0.412	10	0.2	ND	M2

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Qualifier Legend

- B1** The target analyte detected in the calibration is at or above the limit of quantitation, but the sample result for potency testing, is below the limit of quantitation.
- B2** The target analyte detected in the calibration blank, or the method blank is at or above the limit of quantitation, but the sample result when testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, is below the maximum allowable concentration for the analyte.
- 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 with respect to the reference spectra, indicating interference.
- L1** When testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, the percent recovery of a laboratory control sample is greater than the acceptance limits, but the sample's target analytes were not detected above the maximum allowable concentrations for the analytes in the sample.
- 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.
- M6** A description of the variance is described in the final report of testing according to R9-17- 404.06(B)(3)(d)(ii).
- Q1** Sample integrity was not maintained.
- Q2** The sample is heterogeneous, 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.
- R1** The relative percent difference for the laboratory control sample and duplicate exceeded the limit, but the recovery was within acceptance criteria.
- R2** The relative percent difference for a sample and duplicate exceeded the limit.
- V1** The recovery from continuing calibration verification standards exceeded the acceptance limits, but the sample's target analytes were not detected above the maximum allowable for the analytes in the sample.

Notes:

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