



# Certificate of Analysis

Groove, LLC

Sample: 2201FID0121.0704

Strain: Runtz

Batch #: A; Lot #:

METRC Batch: 1A408010000E4E9000000323; METRC Sample: 1A408010000E4E9000000328

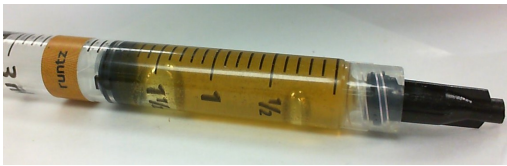
Analysis Initiated: 01/12/2022; Report Created: 01/14/2022

Sampling SOP: SOP-0050

## Runtz Live Rosin Oil (H5)

Concentrates & Extracts, Live Rosin, Pressing  
Harvest/Production Date: 01/10/2022



	<b>77.01%</b> Total Potential Psychoactive THC	<b>0.12%</b> Total CBD	<b>Pass</b> Foreign Matter
	<b>77.08%</b> Total Raw THC	<b>80.59%</b> Total Cannabinoids	<b>Complete</b> NR Moisture

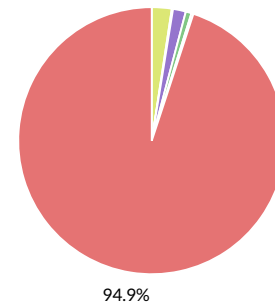
## Cannabinoids

Pass

Analytical Calibration Batch: Cannabinoids AF 01042022

Analyte	LOQ	Mass	Mass
	%	%	mg/g
THCa	0.09	0.56	5.6
Δ9-THC	0.09	76.52	765.2
Δ8-THC	0.09	ND	ND
THCV	0.09	0.20	2.0
CBDa	0.09	ND	ND
CBD	0.09	0.12	1.2
CBN	0.09	<LOQ	<LOQ
CBGa	0.09	ND	ND
CBG	0.09	1.26	12.6
CBC	0.09	1.94	19.4
<b>Total</b>		<b>80.59</b>	<b>805.9</b>

■ CBC   
 ■ CBD   
 ■ CBG   
 ■ THCa  
■ THCV   
 ■ Δ9-THC



Total Potential Psychoactive THC = THCa \* 0.877 + d9-THC

Total CBD = CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected; PPM = Parts per Million; PPB = Parts per Billion; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

SOP-0037; Full spectrum cannabinoid analysis by High Performance Liquid Chromatography with UV detection (HPLC-UV). Reported result is based on sample dry weight.

SOP-0035; Foreign matter inspection includes but is not limited to hair, insects, stems, and feces. Filth is inspected using a M16-209 stereoscope. Stem measurements are performed using fisher calipers.

SOP-0036; Moisture analysis is performed using a Shimadzu moisture analyzer MOC63u UL.



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Accreditation #: 102722

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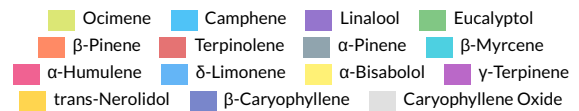
Concentrates & Extracts, Live Rosin, Pressing  
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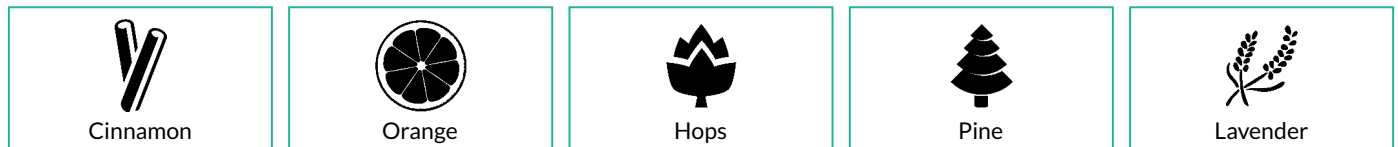
## Terpenes

Analytical Calibration Batch: Terpenes 01112022

Analyte	LOQ	Mass	Mass
	%	%	mg/g
β-Caryophyllene	0.008	2.182	21.82
δ-Limonene	0.008	1.995	19.95
α-Humulene	0.008	0.616	6.16
α-Pinene	0.008	0.584	5.84
Linalool	0.008	0.568	5.68
β-Pinene	0.008	0.315	3.15
β-Myrcene	0.008	0.196	1.96
trans-Nerolidol	0.008	0.131	1.31
Camphene	0.008	0.107	1.07
Ocimene	0.008	0.064	0.64
α-Bisabolol	0.008	0.037	0.37
Caryophyllene Oxide	0.008	0.034	0.34
Terpinolene	0.008	0.032	0.32
Eucalyptol	0.008	0.027	0.27
γ-Terpinene	0.008	0.014	0.14
α-Terpinene	0.008	ND	ND
cis-Nerolidol	0.008	ND	ND
δ-3-Carene	0.008	ND	ND
Geraniol	0.008	ND	ND
Guaiol	0.008	ND	ND
Isopulegol	0.008	ND	ND
p-Cymene	0.008	ND	ND
<b>Total</b>		<b>6.902</b>	<b>69.02</b>



## Primary Aromas



LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected; PPM = Parts per Million; PPB = Parts per Billion; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0044; Terpenoid profile screen is performed using a Thermo Scientific TRACE 1300 Gas Chromatography instrument equipped with a Flame Ionization Detector (GC-FID).



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## Runtz Live Rosin Oil (H5)

Concentrates & Extracts, Live Rosin, Pressing  
Harvest/Production Date: 01/10/2022



### Residual Solvents

Pass

Analytical Calibration Batch: R.S. 12132021

Analyte	LOQ	State Limits	Mass	Status	Analyte	LOQ	State Limits	Mass	Status
	PPM	PPM	PPM			PPM	PPM	PPM	
Acetone	400	5000	ND	Pass	Hexanes	20	290	ND	Pass
Benzene	2	2	ND	Pass	Isopropanol	400	5000	<LOQ	Pass
Butanes	40	5000	ND	Pass	Methanol	400	3000	<LOQ	Pass
Chloroform	2	2	ND	Pass	Pentanes	20	5000	ND	Pass
Cyclohexane	20	3880	ND	Pass	Propane	40	5000	ND	Pass
Dichloromethane	20	5000	ND	Pass	Toluene	20	890	ND	Pass
Ethyl-Acetate	20	5000	ND	Pass	Xylenes	20	2170	ND	Pass
Heptanes	20	5000	ND	Pass					

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.  
SOP-0056; A wide spectrum analysis of Residual Solvents using Gas Chromatography Mass Spectrometry (Thermo Scientific ISQ7000 GCMS).

### Mycotoxins

Pass

Analytical Calibration Batch: 01/11/2022

Analyte	LOQ	State Limit	Mass	Status
	PPB	PPB	PPB	
Ochratoxin A	12	20	ND	Pass
Total Aflatoxins	20	20	ND	Pass

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0048; Mycotoxin screening is performed using Sciex 6500+ LCMSMS with Exion XR front HPLC.

### Microbials

Pass

Analyte	Limit	Mass	Status
	CFU/g	CFU/g	
Aerobic Bacteria	100000	NR	NT
Aspergillus	1	NR	NT
Aspergillus flavus	1	NR	NT
Aspergillus fumigatus	1	NR	NT
Aspergillus niger	1	NR	NT
Aspergillus terreus	1	NR	NT
Bile-Tolerant Gram-Negative Bacteria	10000	NR	NT
E. Coli	1	ND	Pass
Mold	10000	ND	Pass
Salmonella		ND	Pass

LOQ = Limit of Quantitation; TNTC = Too Numerous to Count; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0057; E.Coli, and Salmonella analysis on AriaDX qPCR using Medicinal Genomics validated methods. SOP-0061; Mold enumeration using Hardy Diagnostics media. SOP-0063; Aspergillus species specific analysis on AriaDX qPCR using Medicinal Genomics validated methods.



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Harvest/Production Date: 01/10/2022



## Pesticides

Analytical Calibration Batch: 01/11/2022

Pass

Analyte	LOQ	State Limit	Expanded Limit	Mass	Status
	PPM	PPM	PPM	PPM	
Abamectin	0.30	2.5	2.5	ND	Pass
Acequinocyl	0.30	10	10	ND	Pass
Bifenazate	0.30	1	1	ND	Pass
Bifenthrin	0.30	1	1	ND	Pass
Chloromequat	0.30	5	5	ND	Pass
Cyfluthrin	0.30	5	5	ND	Pass
Daminozide	0.30	5	5	ND	Pass
Etoxazole	0.30	1	1	ND	Pass
Fenoxycarb	0.30	1	1	ND	Pass
Imazalil	0.30	1	1	ND	Pass
Imidacloprid	0.30	2	2	ND	Pass
Myclobutanil	0.30	0.6	0.6	ND	Pass
Paclobutrazol	0.30	2	2	ND	Pass
Pyrethrins	0.30	5	5	ND	Pass
Spinosad	0.30	1	1	ND	Pass
Spirotetramat	0.30	1	1	ND	Pass
Trifloxystrobin	0.30	1	1	ND	Pass

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0048; Pesticide screening is performed using Sciex 6500+ LCMSMS with Exion XR front HPLC.



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