



# Certificate of Analysis

Groove Solventless

Sample: 2301FID0366.2540

Strain: Logjam

Batch #: A; Lot #:

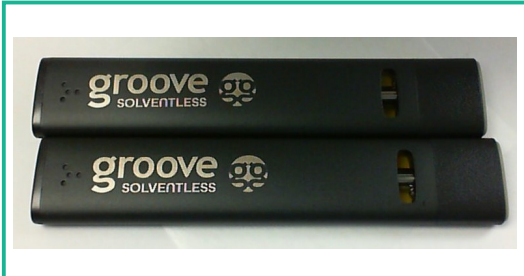
METRC Batch: 1A408010000E4E9000001181; METRC Sample: 1A408010000E4E9000001186

Analysis Initiated: 01/24/2023; Report Created: 01/26/2023

Sampling SOP: SOP-0050

## Logjam Solventless Hash Oil (HB29)

Concentrates & Extracts, Live Rosin, Pressing  
Harvest/Production Date: 01/22/2023

<b>80.80%</b> Total Potential Psychoactive THC	<b>ND</b> Total CBD	<b>Pass</b> Foreign Matter
<b>80.80%</b> Total Raw THC	<b>83.86%</b> Total Cannabinoids	<b>Complete</b> NR Moisture

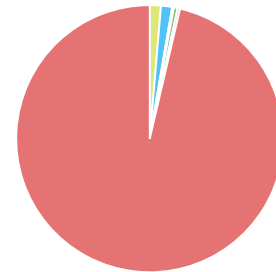
## Cannabinoids

Pass

Analytical Calibration Batch: Cannabinoids AF 01042023

Analyte	LOQ	Mass	Mass
	%	%	mg/g
THCa	0.09	ND	ND
Δ9-THC	0.09	80.80	808.0
Δ8-THC	0.09	ND	ND
THCV	0.09	0.25	2.5
CBDa	0.09	ND	ND
CBD	0.09	ND	ND
CBN	0.09	0.17	1.7
CBGa	0.09	0.39	3.9
CBG	0.09	1.13	11.3
CBC	0.09	1.13	11.3
<b>Total</b>		<b>83.86</b>	<b>838.6</b>

■ CBC   
 ■ CBG   
 ■ CBN   
 ■ CBGa  
■ 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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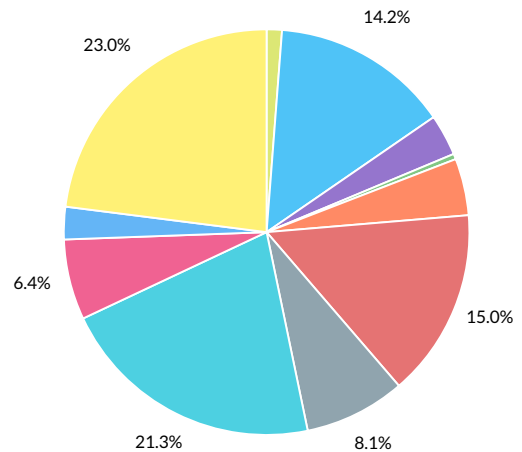
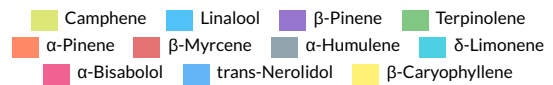
Concentrates & Extracts, Live Rosin, Pressing  
Harvest/Production Date: 01/22/2023



## Terpenes

Analytical Calibration Batch: Terpenes 12/13/2022

Analyte	LOQ	Mass	Mass
	%	%	mg/g
β-Caryophyllene	0.008	1.076	10.76
δ-Limonene	0.008	0.995	9.95
β-Myrcene	0.008	0.703	7.03
Linalool	0.008	0.664	6.64
α-Humulene	0.008	0.377	3.77
α-Bisabolol	0.008	0.301	3.01
α-Pinene	0.008	0.212	2.12
β-Pinene	0.008	0.154	1.54
trans-Nerolidol	0.008	0.121	1.21
Camphene	0.008	0.057	0.57
Terpinolene	0.008	0.020	0.20
α-Terpinene	0.008	ND	ND
Caryophyllene Oxide	0.008	ND	ND
cis-Nerolidol	0.008	ND	ND
δ-3-Carene	0.008	ND	ND
Eucalyptol	0.008	ND	ND
γ-Terpinene	0.008	ND	ND
Geraniol	0.008	ND	ND
Guaiol	0.008	ND	ND
Isopulegol	0.008	ND	ND
Ocimene	0.008	ND	ND
p-Cymene	0.008	ND	ND
<b>Total</b>		<b>4.681</b>	<b>46.81</b>



## Primary Aromas

Cinnamon

Lemon

Hops

Lavender

Chamomile

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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Sampling SOP: SOP-0050

## Logjam Solventless Hash Oil (HB29)

Concentrates & Extracts, Live Rosin, Pressing

Harvest/Production Date: 01/22/2023



## Residual Solvents

Pass

Analytical Calibration Batch: R.S. 11222022

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	ND	Pass
Butanes	40	5000	ND	Pass	Methanol	400	3000	ND	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: 01/25/2023

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	
Mold	10000	NR	NT
Aspergillus flavus	Not Detected in 1.0g	ND	Pass
Aspergillus fumigatus	Not Detected in 1.0g	ND	Pass
Aspergillus niger	Not Detected in 1.0g	ND	Pass
Aspergillus terreus	Not Detected in 1.0g	ND	Pass
Salmonella	Not Detected in 1.0g	ND	Pass
STEC	Not Detected in 1.0g	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; STEC and Salmonella analysis on AriaDX qPCR using Medicinal Genomics validated methods. SOP-0063; Aspergillus species specific analysis on AriaDX qPCR using Medicinal Genomics validated methods. SOP-0061; Mold enumeration using Hardy Diagnostics media.



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## Logjam Solventless Hash Oil (HB29)

Concentrates & Extracts, Live Rosin, Pressing  
Harvest/Production Date: 01/22/2023



## Pesticides

Analytical Calibration Batch: 01/25/2023

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 chloride	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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