

Certificate of Analysis

Project Packs

Phoenix, AZ 85009

Lic. #00000084ESFH12297246

Sample: 2503LVL0240.1204

Secondary License: ; Chain of Distribution:

Strain: Sparkplug; Batch Size: g; External Batch ID: SPRKI241127

Sample Received: 03/18/2025; Report Created: 03/21/2025; Report Expiration: 03/21/2026

Sampling Date: 03/18/2025; Sampling Time: 8AM; Sampling Person: Victoria Miles


Harvest Date: 02/17/2025; Manufacturing Date: ; External Lot ID:

Date of Pickup: Time Collected:

SPRKI241127

Concentrates & Extracts, Infused/Enhanced Preroll



	41.17%	ND	46.83%
	Total THC	Total CBD	
	22.04 mg/g	Not Tested	Total Cannabinoids (Q3)
	Total Terpenes (Q3)	NT Moisture (Q3)	

Cannabinoids

Complete

Analyte	LOQ	Result	Result	Qualifier
	%	%	mg/g	
THCa	0.50	46.02	460.2	M1
Δ9-THC	0.50	0.81	8.1	M1
Δ8-THC	0.50	ND	ND	Q3
THCVa	0.50	<LOQ	<LOQ	Q3
THCV	0.50	ND	ND	Q3
CBDa	0.50	ND	ND	
CBD	0.50	ND	ND	
CBDVa	0.50	ND	ND	Q3
CBDV	0.50	ND	ND	Q3
CBN	0.50	ND	ND	Q3
CBGa	0.50	<LOQ	<LOQ	Q3
CBG	0.50	ND	ND	Q3
CBCa	0.50	<LOQ	<LOQ	Q3
CBC	0.50	ND	ND	Q3
Total		46.83	468.3	Q3

Qualifiers:
Date Tested: 03/19/2025 12:00 am

Total THC = THCa * 0.877 + Δ9-THC
Total CBD = CBDa * 0.877 + CBD

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. Cannabinoid potency performed by HPLC-DAD per SOP-(1608). ADHS approved method for potency by HPLC-DAD for all listed analytes.

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Terpenes

Analyte	LOQ	Result	Result	Qualifier	Analyte	LOQ	Result	Result	Qualifier
	mg/g	mg/g	%			mg/g	mg/g	%	
β-Caryophyllene	0.21	6.96	0.696	Q3	Citronellol	1.05	<LOQ	<LOQ	Q3
δ-Limonene	0.21	6.85	0.685	Q3	Eucalyptol	0.10	ND	ND	Q3
β-Myrcene	0.10	2.12	0.212	Q3	Farnesene	0.02	ND	ND	Q3
α-Humulene	0.10	1.81	0.181	Q3	Fenchone	0.21	<LOQ	<LOQ	Q3
Fenchol	0.10	0.86	0.086	Q3	γ-Terpinene	0.10	ND	ND	Q3
α-Pinene	0.10	0.68	0.068	Q3	γ-Terpineol	0.02	ND	ND	Q3
α-Terpineol	0.17	0.60	0.060	Q3	Geraniol	2.10	ND	ND	Q3
Linalool	0.21	0.59	0.059	Q3	Geranyl Acetate	0.10	ND	ND	Q3
cis-Ocimene	0.03	0.55	0.055	Q3	Guaiol	0.10	<LOQ	<LOQ	Q3
β-Pinene	0.21	0.47	0.047	Q3	Isoborneol	1.05	ND	ND	Q3
α-Bisabolol	0.10	0.30	0.030	Q3	Isopulegol	0.10	ND	ND	Q3
Camphene	0.10	0.15	0.015	Q3	Menthol	0.10	ND	ND	Q3
Caryophyllene	0.10	0.10	0.010	Q3	Nerol	0.10	ND	ND	Q3
Oxide	0.10	0.10	0.010	Q3	Pulegone	0.10	ND	ND	Q3
3-Carene	0.21	ND	ND	Q3	p-Cymene	0.10	ND	ND	Q3
α-Cedrene	0.10	ND	ND	Q3	Sabinene	0.10	ND	ND	Q3
α-Phellandrene	0.10	ND	ND	Q3	Sabinene Hydrate	0.10	ND	ND	Q3
α-Terpinene	0.10	ND	ND	Q3	Terpinolene	0.21	<LOQ	<LOQ	Q3
β-Eudesmol	0.10	ND	ND	Q3	trans-Nerolidol	0.10	ND	ND	Q3
Borneol	0.31	<LOQ	<LOQ	Q3	trans-Ocimene	0.07	ND	ND	Q3
Camphor	0.42	ND	ND	Q3	Valencene	0.10	ND	ND	Q3
Cedrol	0.10	ND	ND	Q3					
cis-Nerolidol	0.21	ND	ND	Q3					

Primary Aromas



Cinnamon



Lemon



Hops



Basil



Pine

22.04 mg/g

Total Terpenes

Qualifiers:

Date Tested: 03/18/2025 12:00 am

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Residual Solvents

Pass

Analyte	LOQ	Limit	Result	Status	Qualifier
	PPM	PPM	PPM		
Acetone	356.210	1000.000	ND	Pass	V1
Acetonitrile	144.800	410.000	ND	Pass	V1
Benzene	0.710	2.000	ND	Pass	V1
Butanes	2370.020	5000.000	ND	Pass	V1
Chloroform	21.330	60.000	ND	Pass	V1 M1
Dichloromethane	216.760	600.000	ND	Pass	V1
Ethanol	1767.360	5000.000	ND	Pass	
Ethyl-Acetate	1769.030	5000.000	ND	Pass	V1
Ethyl-Ether	1762.130	5000.000	ND	Pass	V1
Heptane	1764.690	5000.000	ND	Pass	V1
Hexanes	101.730	290.000	ND	Pass	V1 M1
Isopropanol	1759.070	5000.000	ND	Pass	V1
Isopropyl-Acetate	1762.330	5000.000	ND	Pass	V1
Methanol	1054.640	3000.000	ND	Pass	V1
Pentanes	1773.770	5000.000	ND	Pass	V1 L1
Toluene	317.400	890.000	ND	Pass	V1
Xylenes	760.470	2170.000	ND	Pass	V1

LEVEL ONE

Qualifiers:

Date Tested: 03/19/2025 07:00 am

Performed by GCMS-HS per SOP-LM-014. Methods used per AZDHS R9-17-404.03 and solvent limits set by AZDHS R9-17 Table 3.1. ADHS approved method for residual solvents by GCMS-HS for all listed analytes.



1525 N Granite Reef Rd

Scottsdale, AZ

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Matthew Schuberth
Laboratory Director

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Concentrates & Extracts, Infused/Enhanced Preroll



Pesticides

Pass

Analyte	LOQ	Limit	Units	Status	Qualifier	Analyte	LOQ	Limit	Units	Status	Qualifier
	PPM	PPM	PPM				PPM	PPM	PPM		
Abamectin	0.030	0.500	ND	Pass	M1	Hexythiazox	0.040	1.000	ND	Pass	M1
Acephate	0.040	0.400	ND	Pass	V1 L1	Imazalil	0.040	0.200	ND	Pass	V1 L1
Acetamiprid	0.040	0.200	ND	Pass	V1 L1	Imidacloprid	0.040	0.400	ND	Pass	V1 L1
Aldicarb	0.040	0.400	ND	Pass	V1 L1	Kresoxim Methyl	0.040	0.400	ND	Pass	M1
Azoxystrobin	0.040	0.200	ND	Pass	M1	Malathion	0.040	0.200	ND	Pass	M1
Bifenazate	0.040	0.200	ND	Pass	M1	Metalaxyl	0.040	0.200	ND	Pass	V1 L1
Bifenthrin	0.040	0.200	ND	Pass		Methiocarb	0.040	0.200	ND	Pass	L1
Boscalid	0.040	0.400	ND	Pass	M1	Methomyl	0.040	0.400	ND	Pass	V1 L1
Carbaryl	0.040	0.200	ND	Pass	V1 L1	Myclobutanil	0.040	0.200	ND	Pass	M1
Carbofuran	0.040	0.200	ND	Pass	V1 L1	Naled	0.040	0.500	ND	Pass	V1 L1
Chlorantraniliprole	0.040	0.200	ND	Pass	V1 L1	Oxamyl	0.040	1.000	ND	Pass	V1 L1
Chlorfenapyr	0.440	1.000	ND	Pass	M1	Paclobutrazol	0.040	0.400	ND	Pass	L1 R1
Chlorpyrifos	0.040	0.200	ND	Pass	V1 M1	Permethrins	0.040	0.200	ND	Pass	V1 M1
Clofentezine	0.040	0.200	ND	Pass	M1	Phosmet	0.040	0.200	ND	Pass	L1
Cyfluthrin	0.440	1.000	ND	Pass	M1	Piperonyl Butoxide	0.040	2.000	ND	Pass	M1
Cypermethrin	0.040	1.000	ND	Pass	M1	Prallethrin	0.040	0.200	ND	Pass	M1
Daminozide	0.440	1.000	ND	Pass	V1 L1	Propiconazole	0.040	0.400	ND	Pass	M1
Dichlorvos (DDVP)	0.040	0.100	ND	Pass	V1 L1	Propoxur	0.040	0.200	ND	Pass	V1 L1
Diazinon	0.040	0.200	ND	Pass	M1	Pyrethrins	0.440	1.000	ND	Pass	M1
Dimethoate	0.040	0.200	ND	Pass	V1 L1	Pyridaben	0.040	0.200	ND	Pass	M1
Ethoprophos	0.040	0.200	ND	Pass	M1	Spinosad	0.040	0.200	ND	Pass	M1
Etofenprox	0.040	0.400	ND	Pass	M1	Spiromesifen	0.040	0.200	ND	Pass	
Etoxazole	0.040	0.200	ND	Pass	M1	Spirotetramat	0.040	0.200	ND	Pass	M1
Fenoxycarb	0.040	0.200	ND	Pass	M1	Spiroxamine	0.040	0.400	ND	Pass	L1
Fenpyroximate	0.040	0.400	ND	Pass	M1	Tebuconazole	0.040	0.400	ND	Pass	M1
Fipronil	0.040	0.400	ND	Pass	M1	Thiacloprid	0.040	0.200	ND	Pass	V1 L1
Flonicamid	0.040	1.000	ND	Pass	V1 L1	Thiamethoxam	0.040	0.200	ND	Pass	V1 L1
Fludioxonil	0.040	0.400	ND	Pass	M1 R1	Trifloxystrobin	0.040	0.200	ND	Pass	M1

Herbicides

Analyte	LOQ	Limit	Units	Status
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Qualifiers:

Date Tested: 03/18/2025 12:00 am

Performed by LCMSMS per SOP-LM-021 and SOP-LM-022. ND = Not Detected; NR = Not Reported. Methods used per AZDHS R9-17-404.03 and pesticide limits set by AZDHS R9-17 Table 3.1. ADHS approved method for pesticide testing by LCMSMS for full list effective 5/1/2021.



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Mycotoxins

Pass

Total Ochratoxins Date Tested: 03/17/2025

Total Aflatoxins Date Tested: 03/17/2025

Analyte	LOQ	Limit	Result	Status	Qualifier
	µg/kg	µg/kg	µg/kg		
Total Aflatoxins (B1 B2 G1 and G2)	4.00	20.00	ND	Pass	
Total Ochratoxins (A and B)	2.00	20.00	4.80	Pass	

LEVEL ONE

TNTC = Too Numerous to Count. The lower limit of quantification for Aflatoxin is 4ppb and the lower limit of quantification for Ochratoxin is 2ppb unless noted on the CoA by further dilution. Unless otherwise stated all quality control samples performed within specifications. Analysis Method/Instrumentation: direct ELISA produced by Romer Labs and read on Bio-Tek 800TS microplate reader. Procedure followed SOP-LM-018. Methods used per AZDHS R9-17-404.03 and R9-17-404.04 and limits set by AZDHS R9-17 Table 3.1. ADHS approved method.



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Microbials

Pass

Analyte	Result	Result Units	Status	Qualifier
E. Coli	<10	CFU/G	Pass	
Salmonella	Not Detected	in one gram	Pass	
Aspergillus terreus	Not Detected	in one gram	Pass	
Aspergillus fumigatus, Aspergillus flavus, and Aspergillus niger	Not Detected	in one gram	Pass	

Qualifiers:

Date Tested: 03/20/2025 12:00 am

TNTC = Too Numerous to Count. The lower limit of quantification for E. coli is 10 CFU/g unless noted on the CoA by further dilution. Unless otherwise stated all quality control samples performed within specifications. Analysis Method/Instrumentation: E. coli plating via 3M Petrifilm per SOP-LM-019, Salmonella spp. And Aspergillus spp. detection by Bio-Rad CFX96 Deep Well real-time PCR per SOP-LM-016 & SOP-LM-017. Methods used per AZDHS R9-17-404.04 and microbial limits set by AZDHS R9-17 Table 3.1. ADHS approved method for microbials for all listed organisms.



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Heavy Metals

Pass

Analyte	Result	LOQ	Limit	Status	Qualifier
	PPM	PPM	PPM		
Arsenic	ND	0.165	0.400	Pass	L1
Cadmium	<0.165	0.165	0.400	Pass	L1
Lead	ND	0.165	1.000	Pass	L1
Mercury	ND	0.165	0.200	Pass	L1

LEVEL ONE

Qualifiers:
Date Tested: 03/20/2025 12:00 am

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