



Smithers AMS LLC
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Wareham, MA 02571
License #: IL281355
Phone: 508-295-2550



Customer: Berkshire Roots

Address:
501 Dalton Ave
Pittsfield MA 01201
Phone: 413-329-5067
License #: MP281427



Sample ID: 39143
Sample Name: OGKB 2.0 bx Bulk LIVE Concentrate
Sample Strain: OGKB 2.0 bx
Sample Type: Concentrate
Received Date: 12/12/2025
Report Date: 12/17/2025
METRC ID: 1A40A0300000642000109948
METRC Source ID:
1A40A0300000642000100029
Client Batch ID: 251120OGKB-FF-BP
Sanitization Method: None
Client Sample Size: 5.5 grams

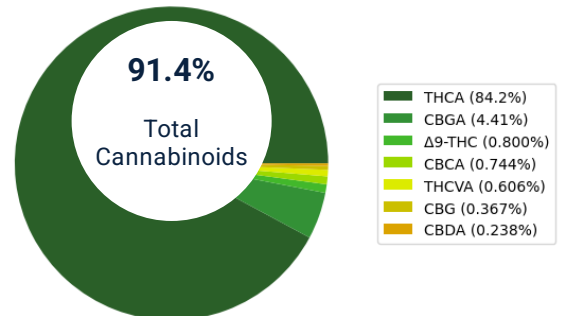


Certificate of Analysis

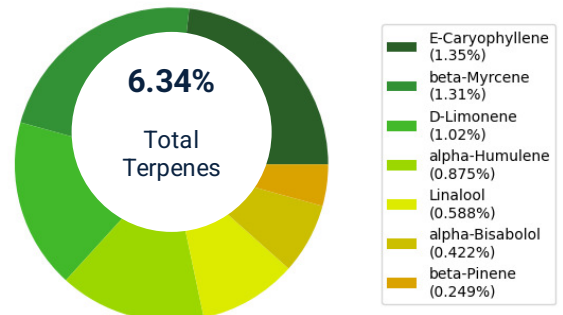
Results Summary

Cannabinoids	TESTED
12/15/2025	
Terpenes	TESTED
12/17/2025	
Heavy Metals	✓ PASS
12/17/2025	
Microbial Impurities	✓ PASS
12/15/2025	
Residual Solvents	✓ PASS
12/16/2025	
Mycotoxins	✓ PASS
12/13/2025	

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Cannabinoids

Date Started: 12/12/2025
Instrument: UPLC-PDA

Date Completed: 12/15/2025
Method: TP-09.001.06 & TP-09.012.07

Analyst: Lana Rivera (B144852)
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
THCA	84.2	842	0.232	1.45
CBGA	4.41	44.1	0.00568	0.0725
Δ9-THC	0.800	8.00	0.0268	0.145
CBCA	0.744	7.44	0.0187	0.0580
THCVA	0.606	6.06	0.00616	0.0580
CBG	0.367	3.67	0.00630	0.0725
CBDA	0.238	2.38	0.00914	0.145
CBDVA	ND	ND	0.00975	0.0580
CBDV	ND	ND	0.0277	0.0580
CBD	ND	ND	0.0112	0.145
Δ9-THCV	ND	ND	0.00782	0.0580
Δ8-THCV	ND	ND	0.0141	0.0580
CBN	ND	ND	0.00993	0.0725
CBNA	ND	ND	0.00765	0.0580
Exo-THC	ND	ND	0.0116	0.0580
Δ8-THC	ND	ND	0.0254	0.0725
CBL	ND	ND	0.0172	0.0580
CBC	ND	ND	0.00687	0.0580
Total THC	74.6	746		
Total CBD	0.208	2.08		
Total Cannabinoids	91.4	914		

Total THC = Δ9-THC + (THCA x 0.877)

Total CBD = CBD + (CBDA x 0.877)

Total Cannabinoids = Sum of all cannabinoids without THC/CBD corrections.

LOD = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

Certificate of Analysis

Terpenes

Date Started: 12/12/2025
Instrument: GC-MS

Date Completed: 12/17/2025
Method: TP-09.004.06

Analyst: Garrett Lane (B158413)
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
E-Caryophyllene	1.35	13.5	0.00681	0.0155
beta-Myrcene	1.31	13.1	0.00261	0.0155
D-Limonene	1.02	10.2	0.00328	0.0155
alpha-Humulene	0.875	8.75	0.00335	0.0155
Linalool	0.588	5.88	0.00473	0.0155
alpha-Bisabolol	0.422	4.22	0.00574	0.0155
beta-Pinene	0.249	2.49	0.00321	0.0155
Carophyllene Oxide	0.217	2.17	0.00351	0.0155
alpha-Pinene	0.179	1.79	0.00130	0.0155
Camphene	0.144	1.44	0.00171	0.0155
E-beta-Ocimene	ND	ND	0.00641	0.0155
Isopulegol	ND	ND	0.00752	0.0155
Geraniol	ND	ND	0.00483	0.0155
Z-Nerolidol	ND	ND	0.00421	0.0155
E-Nerolidol	ND	ND	0.00354	0.0155
Guaiol	ND	ND	0.00337	0.0155
Eucalyptol	ND	ND	0.00470	0.0155
delta-3-Carene	ND	ND	0.00506	0.0155
alpha-Terpinene	ND	ND	0.00475	0.0155
Z-beta-Ocimene	ND	ND	0.00628	0.0155
gamma-Terpinene	ND	ND	0.00351	0.0155
Terpinolene	ND	ND	0.00194	0.0155
Total Terpenes	6.34	63.4		

Heavy Metals

✓ **PASS**

Date Started: 12/16/2025
Instrument: ICP-MS

Date Completed: 12/17/2025
Method: TP-09.007.04

Analyst: Meagan Mattos (B154555)
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	10.9	74.0	200	Pass
Cadmium	ND	6.57	74.0	200	Pass
Lead	<LOQ	6.04	74.0	500	Pass
Mercury	ND	5.27	37.0	100	Pass

Microbial Impurities

✓ **PASS**

Date Started: 12/12/2025
Instrument: TEMPO & Gene-Up

Date Completed: 12/15/2025
Method: TP-09.010.02 & TP-09.011.03

Analyst: Sydney Murphy (B168056)
Deviation: N/A

Microbials	Result (CFU/g)	Limit (CFU/g)	Status
Coliforms	ND	100	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	100	Pass
Yeast & Mold	ND	1000	Pass
Aerobic Bacteria	ND	10000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

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Certificate of Analysis

Residual Solvents

✓ **PASS**

Date Started: 12/15/2025
Instrument: HS-GC-MS

Date Completed: 12/16/2025
Method: TP-09.005.04

Analyst: Lana Rivera (B144852)
Deviation: N/A

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limit (ppm)	Status
n-Propane	ND	0.412	1.62	12.0	Pass
Iso-butane	ND	0.271	1.62	12.0	Pass
n-Butane	6.26	0.178	1.62	12.0	Pass
Methanol	ND	38.5	97.4	3000	Pass
Ethylene Oxide	ND	0.649	1.30		Pass
n-Pentane	ND	26.2	97.4	5000	Pass
Ethanol	ND	18.1	97.4	5000	Pass
Ethyl Ether	ND	24.6	97.4	5000	Pass
Acetone	ND	17.7	97.4	5000	Pass
Isopropyl Alcohol	<LOQ	22.0	97.4	5000	Pass
Acetonitrile	ND	13.7	97.4	410	Pass
Methylene Chloride	ND	0.649	1.30	600	Pass
n-Hexane	ND	26.5	97.4	290	Pass
Ethyl Acetate	ND	15.3	97.4	5000	Pass
Chloroform	ND	0.649	1.30	60.0	Pass
1,2-Dichloroethane	ND	0.649	1.30	1870	Pass
Benzene	ND	0.649	1.30		Pass
n-Heptane	ND	28.3	97.4	5000	Pass
Trichloroethylene	ND	0.649	1.30	80.0	Pass
Toluene	ND	11.2	97.4	890	Pass
Total Xylenes	ND	19.2	48.7	2170	Pass

Mycotoxins

✓ **PASS**

Date Started: 12/12/2025
Instrument: LC-MS/MS

Date Completed: 12/13/2025
Method: TP-09.009.05

Analyst: Lana Rivera (B144852)
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	0.834	2.75		
Aflatoxin B2	ND	0.834	2.75		
Aflatoxin G1	ND	0.834	2.75		
Aflatoxin G2	ND	0.834	2.75		
Ochratoxin A	ND	0.834	2.75		
Total Mycotoxins	ND	0.834	2.75	20.0	Pass



Yuemin Wang Kovaleff, Lab
 Manager
 12/17/2025

END OF REPORT

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