



For R&D Use Only - Not a California Compliance Certificate.

Grape Gas

Client

Sample Name: Grape Gas Batch Number: N/A

Matrix: Plant Unit Mass: 1 g per unit Sample ID: 64150507-2 Date Received: 5/7/2025



Total CBD	ND
Delta 9-THC	0.12 %
THCA	28.89 %
Total Cannabinoids	29.01 %
Analysis Summary	
Residual Pesticides	Pass
Residual Solvents & Processing Chemicals	Pass
Mycotoxins	Pass
Heavy Metals	Pass
Microbial Impurities	Pass
Total Terpenes	2.22 %

Cannabinoid Analysis Complete

Analyte	LOD (%)	LOQ (%)	Mass (%)	Mass (mg/g)	
CBDV	0.0035	0.011	ND	ND	
CBD	0.0030	0.0090	ND	ND	
CBG	0.0038	0.011	ND	ND	
CBDA	0.0017	0.0052	ND	ND	
CBN	0.00080	0.0024	ND	ND	
Delta 9-THC	0.0022	0.0067	0.118	1.18	
Delta 8-THC	0.0020	0.0059	ND	ND	
CBC	0.00070	0.0021	ND	ND	
THCA	0.0024	0.0073	28.894	288.94	
Total CBD			ND	ND	
Total THC			25.46	254.58	
Total Cannabinoids			29.01	290.12	

Date Tested: 5/8/2025

Total THC = THCa * 0.877 + d9-THC + d8-THC; Total CBD = CBDa * 0.877 + CBD

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References: limit of detection (LOD), limit of quantitation (LOQ), not detected (ND), not tested (NT)





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Pesticide Analysis	Pass	

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
Abamectin	0.050	0.10	ND	Pass	
cephate	0.050	0.10	ND	Pass	
cequinocyl	0.050	0.10	ND	Pass	
etamiprid	0.050	0.10	ND	Pass	
dicarb	0.050	0.00	ND	Pass	
coxystrobin	0.050	0.10	ND.	Pass	
fenazate	0.050	0.10	ND	Pass	
fenthrin	0.050	3.00	ND	Pass	
scalid	0.050	0.10	ND	Pass	
ptan	0.050	0.70	ND	Pass	
rbaryl	0.050	0.50	ND	Pass	
rbofuran	0.050	0.00	ND	Pass	
lorantraniliprole	0.050	10.00	ND	Pass	
lordane	0.050	0.00	ND	Pass	
lorfenapyr	0.050	0.00	ND	Pass	
lorpyrifos	0.050	0.00	ND	Pass	
fentezine	0.050	0.10	ND	Pass	
umaphos	0.050	0.00	ND	Pass	
fluthrin	0.050	2.00	ND	Pass	
permethrin	0.050	1.00	ND	Pass	
minozide	0.050	0.00	ND	Pass	
VP	0.050	0.00	ND	Pass	
azinon	0.050	0.10	ND	Pass	
nethoate	0.050	0.00	ND	Pass	
nethomorph	0.050	2.00	ND	Pass	
oprophos	0.050	0.00	ND	Pass	
fenprox	0.050	0.00	ND	Pass	
oxazole	0.050	0.10	ND	Pass	
nhexamid	0.050	0.10	ND	Pass	
noxycarb	0.050	0.00	ND	Pass	
npyroximate	0.050	0.10	ND	Pass	
pronil	0.050	0.00	ND	Pass	
nicamid	0.050	0.10	ND	Pass	
dioxonil	0.050	0.10	ND	Pass	
xythiazox	0.050	0.10	ND	Pass	
azalil					
idacloprid	0.050 0.050	0.00	ND ND	Pass Pass	
AND THE RESERVE OF THE PARTY OF	0.050	5.00	ND ND		
esoxim Methyl		0.10		Pass	
alathion etalaxyl	0.050	0.50	ND	Pass	
	0.050	2.00	ND	Pass	
ethiocarb	0.050	0.00	ND	Pass	
ethomyl	0.050	1.00	ND	Pass	
ethyl Parathion	0.050	0.00	ND	Pass	
evinphos	0.050	0.00	ND	Pass	
clobutanil	0.050	0.10	ND	Pass	
led	0.050	0.10	ND	Pass	
amyl	0.050	0.50	ND	Pass	
clobutrazol	0.050	0.00	ND	Pass	
ntachloronitrobenzene	0.050	0.10	ND	Pass	
rmethrin	0.050	0.50	0.340	Pass	
osmet	0.050	0.10	ND	Pass	
peronyl Butoxide	0.050	3.00	ND	Pass	
allethrin	0.050	0.10	ND	Pass	
ropiconazole	0.050	0.10	ND	Pass	





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Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
Propoxur	0.050	0.00	ND	Pass	
Pyrethrins	0.050	0.50	0.320	Pass	
Pyridaben	0.050	0.10	ND	Pass	
Spinetoram	0.050	0.10	ND	Pass	
Spinosad	0.050	0.10	ND	Pass	
Spiromesifen	0.050	0.10	ND.	Pass	
Spirotetramat	0.050	0.10	ND	Pass	
Spiroxamine	0.050	0.00	ND	Pass	
Tebuconazole	0.050	0.10	ND	Pass	
Thiacloprid	0.050	0.00	ND	Pass	
Thiamethoxam	0.050	5.00	ND	Pass	
Trifloxystrobin	0.050	0.10	ND	Pass	

Date Tested: 5/9/2025

Residual Solvents Analysis

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status	
Acetone	100	5000	ND	Pass	
Acetonitrile	100	410	ND	Pass	
Benzene	1	1	ND	Pass	
Butane	100	5000	ND	Pass	
Chloroform	1	1	ND	Pass	
1,2-Dichloroethane	1	1	ND	Pass	
Ethanol	100	5000	ND	Pass	
Ethyl Acetate	100	5000	ND	Pass	
Ethyl Ether	100	5000	ND	Pass	
Ethylene Oxide	1	1	ND	Pass	
Heptane	100	5000	ND	Pass	
n-Hexane	100	290	ND	Pass	
Isopropanol	100	5000	ND	Pass	
Methanol	100	3000	ND	Pass	
Methylene Chloride	1	1	ND	Pass	
Pentane	100	5000	ND	Pass	
Propane	100	5000	ND	Pass	
Toluene	100	890	ND	Pass	
Trichloroethylene	1	1	ND	Pass	
Xylenes	100	2170	ND	Pass	

Date Tested: 5/12/2025

Pass Mycotoxins

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status	
Aflatoxin B1	0.02	0.02	ND	Pass	
Aflatoxin B2	0.02	0.02	ND	Pass	
Aflatoxin G1	0.02	0.02	ND	Pass	
Aflatoxin G2	0.02	0.02	ND	Pass	
Ochratoxin A	0.02	0.02	ND ·	Pass	

Date Tested: 5/9/2025



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Method References:

Hemp Profile (SOP HPLC Hemp by UV-Detection)

Multi-Residue Pesticide Analysis - (AOAC_200701)

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

Residual Solvents Analysis - 20 compounds (USP_467)

USP current revision, Chapter 62.

United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015) (modified).

Mycotoxins Analysis - 5 compounds (FDA_MYC)

Determination of Mycotoxins in Corn, Peanut Butter and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) (modified).

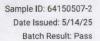
Heavy Metals Analysis - 4 elements (EPA_200.8)

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version (modified).

Microbial Analysis - (FDABAM_4A_5_18)

U.S. Food and Drug Administration, Bacteriological Analytical Manual, Chapter 4A, Diarrheagenic Escherichia coli, Chapter 5, Salmonella, Chapter 18, Yeasts, Molds and Mycotoxins (modified).





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Heavy I	Me	ta	S	Ana	ysis
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Pass

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status	
Arsenic	0.050	0.200	ND	Pass	
Cadmium	0.050	0.200	ND	Pass	
Lead	0.125	0.500	0.142	Pass	
Mercury	0.025	0.100	ND	Pass	

Date Tested: 5/9/2025

Microbial Analysis

Pass

Result (CFU/g)	Status	
Absent / 1g	Pass	
	Absent / 1g	Absent / 1g Pass

Date Tested: 5/13/2025 CFU = Colony Forming Units

Terpenoid Analysis

Complete

Analyte	LOQ (%)	Mass (%)	Mass (mg/g)	
Camphene	0.0085	0.0225	0.225	
3-Carene	0.0085	ND	ND	
ß-Caryophyllene	0.0085	0.355	3.550	
p-Cymene	0.0085	0.142	1.420	
Eucalyptol	0.0085	ND	ND	
Fenchol	0.0085	0.1041	1.041	
a-Humulene	0.0085	0.2249	2.249	THE PARTY
δ-Limonene	0.0085	0.7337	7.337	N P
Linalool	0.0085	0.1124	1.124	
ß-Myrcene	0.0085	0.1302	1.302	
Nerolidol	0.0085	0.3314	3.314	
α-Pinene	0.0085	0.0639	0.639	
Terpinolene	0.0085	ND	ND	
Total Terpenoids		2.22	22.20	

Date Tested: 5/9/2025