

# **Grape Gas**

**Client: Modern Distribution** 



# **Certificate of Analysis**

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

Total CBD	ND
Total THC	27.11 %
Total Cannabinoids	30.88 %

### **Analysis Summary**

Residual Pesticides	Pass
Mycotoxins	Pass
Heavy Metals	Pass
Microbial Impurities	Pass

Sample Name: Grape Gas

Batch Number: PLD82224GG

**Matrix:** Plant

Sample ID: 47440821-15

**Unit Mass:** 1 g per unit

Date Received: 8/21/2024

Approved By: Marie True, M.S. Laboratory Manager

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

FESA Labs 2002 South Grand Avenue Suite A Santa Ana, CA 92705 (714) 540-0172 www.fesalabs.com



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#### **Cannabinoid Analysis**

Date Issued: 8/26/24
Batch Result: Pass

Complete

Sample ID: 47440821-15

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	0.197	1.97
Delta 8-THC	0.0020	0.0059	ND	ND
CBC	0.00070	0.0021	ND	ND
ТНСА	0.0024	0.0073	30.687	306.87
Total CBD			ND	ND
Total THC			27.11	271.10
Total Cannabinoids			30.88	308.84

Date Tested: 8/22/2024

Total THC = THCa \* 0.877 + d9-THC + d8-THC

Total CBD = CBDa \* 0.877 + CBD

### **Pesticide Analysis**

Acepine0.0500.10NDPassAcequinoyi0.0500.10NDPassAcetamiprid0.0500.00NDPassAdicarb0.0500.00NDPassAdicarb0.0500.10NDPassBrienzate0.0500.10NDPassBrienzite0.0500.10NDPassBrienzite0.0500.10NDPassBocalid0.0500.70NDPassCarbor0.0500.70NDPassCarbor0.0500.00NDPassCarbor0.0500.00NDPassCarbor0.0500.00NDPassCarbor0.0500.00NDPassChordnam0.0500.00NDPassChordnam0.0500.00NDPassChordnapyr0.0500.00NDPassChordnapyr0.0500.00NDPassChordnapyr0.0500.00NDPassChordnapyr0.0500.00NDPassChordnaph0.0500.00NDPassChordnaph0.0500.00NDPassChordnaph0.0500.00NDPassChordnaph0.0500.00NDPassChordnaph0.0500.00NDPassChordnaph0.0500.00NDPassChordnaph0.	Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
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Carbaryl 0.050 0.50 ND Pass   Carbofuran 0.050 0.00 ND Pass   Chloratnanlibrole 0.050 0.00 ND Pass   Chloratnanlibrole 0.050 0.00 ND Pass   Chloratnani 0.050 0.00 ND Pass   Coumaphos 0.050 0.00 ND Pass   Coumaphos 0.050 0.00 ND Pass   Cypermethrin 0.050 0.00 ND Pass   Dominozide 0.050 0.00 ND Pass   Diverton 0.050 0.00 ND Pass   Diverton 0.050 0.00 ND Pass   Diverton 0.050 0.00 ND Pass   Eth	Boscalid	0.050	0.10	ND	Pass	
Carbofuran 0.050 0.00 ND Pass   Chlorantraniliprole 0.050 0.00 ND Pass   Colorantron 0.050 0.00 ND Pass   Couraphos 0.050 0.00 ND Pass   Cypermethrin 0.050 0.00 ND Pass   Daminozide 0.050 0.00 ND Pass   Diverthorate 0.050 0.00 ND Pass   Diverthorate 0.050 0.00 ND Pass   Etoprophos 0.050 0.00 ND Pass   Etoprophos 0.050 0.00 ND	Captan	0.050	0.70	ND	Pass	
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Cyflwrin 0.050 2.00 ND Pass   Cypermethrin 0.050 1.00 ND Pass   Daminozide 0.050 0.00 ND Pass   DDVP 0.050 0.00 ND Pass   Diazinon 0.050 0.00 ND Pass   Dimethoate 0.050 0.00 ND Pass   Dimethoate 0.050 0.00 ND Pass   Dimethoate 0.050 0.00 ND Pass   Ethoprophos 0.050 0.00 ND Pass   Etofenprox 0.050 0.00 ND Pass   Etorazole 0.050 0.00 ND Pass   Fenexamid 0.050 0.10 ND Pass   Fenexycarb 0.050 0.00 ND Pass   Feneryroximate 0.050 0.00 ND Pass   Fipronil 0.050 0.00 ND Pass	Clofentezine	0.050	0.10	ND	Pass	
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Daminozide0.0500.00NDPassDDVP0.0500.00NDPassDiazinon0.0500.10NDPassDimethoate0.0500.00NDPassDimethomorph0.0502.00NDPassEthoprophos0.0500.00NDPassEtofenprox0.0500.00NDPassEtoazole0.0500.00NDPassFenkxamid0.0500.10NDPassFenyroximate0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil0.0500.00NDPassFipronil<	Cyfluthrin	0.050	2.00	ND	Pass	
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Fenhexamid 0.050 0.10 ND Pass   Fenoxycarb 0.050 0.00 ND Pass   Fenoyroximate 0.050 0.10 ND Pass   Fipronil 0.050 0.00 ND Pass   Flonicamid 0.050 0.10 ND Pass	Etofenprox	0.050	0.00	ND	Pass	
Fenoxycarb 0.050 0.00 ND Pass   Fenoyroximate 0.050 0.10 ND Pass   Fipronil 0.050 0.00 ND Pass   Flonicamid 0.050 0.10 ND Pass	Etoxazole	0.050	0.10	ND	Pass	
Fenpyroximate 0.050 0.10 ND Pass   Fipronil 0.050 0.00 ND Pass   Flonicamid 0.050 0.10 ND Pass	Fenhexamid	0.050	0.10	ND	Pass	
Fipronil 0.050 0.00 ND Pass   Flonicamid 0.050 0.10 ND Pass	Fenoxycarb	0.050	0.00	ND	Pass	
Flonicamid 0.050 0.10 ND Pass	Fenpyroximate	0.050	0.10	ND	Pass	
	Fipronil	0.050	0.00	ND	Pass	
Fludioxonil 0.050 0.10 ND Pass	Flonicamid	0.050	0.10	ND	Pass	
	Fludioxonil	0.050	0.10	ND	Pass	



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Pass

### **Pesticide Analysis**

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
Hexythiazox	0.050	0.10	ND	Pass	
Imazalil	0.050	0.00	ND	Pass	
Imidacloprid	0.050	5.00	ND	Pass	
Kresoxim Methyl	0.050	0.10	ND	Pass	
Malathion	0.050	0.50	ND	Pass	
Metalaxyl	0.050	2.00	ND	Pass	
Methiocarb	0.050	0.00	ND	Pass	
Methomyl	0.050	1.00	ND	Pass	
Methyl Parathion	0.050	0.00	ND	Pass	
Mevinphos	0.050	0.00	ND	Pass	
Myclobutanil	0.050	0.10	ND	Pass	
Naled	0.050	0.10	ND	Pass	
Dxamyl	0.050	0.50	ND	Pass	
Paclobutrazol	0.050	0.00	ND	Pass	
Pentachloronitrobenzene	0.050	0.10	ND	Pass	
Permethrin	0.050	0.50	ND	Pass	
Phosmet	0.050	0.10	ND	Pass	
Piperonyl Butoxide	0.050	3.00	ND	Pass	
Prallethrin	0.050	0.10	ND	Pass	
Propiconazole	0.050	0.10	ND	Pass	
Propoxur	0.050	0.00	ND	Pass	
Pyrethrins	0.050	0.50	ND	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: 8/22/2024



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### 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: 8/22/2024

#### Heavy Metals Analysis

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	0.163	Pass
Mercury	0.025	0.100	ND	Pass

Date Tested: 8/23/2024

### **Microbial Analysis**

Test	Result (CFU/g)	Status	
Aspergillus flavus	Absent / 1g	Pass	
Aspergillus fumigatus	Absent / 1g	Pass	
Aspergillus niger	Absent / 1g	Pass	
Aspergillus terreus	Absent / 1g	Pass	
Shiga-toxin producing Escherichia coli	Absent / 1g	Pass	
Salmonella	Absent / 1g	Pass	

Date Tested: 8/23/2024 CFU = Colony Forming Units Pass

Pass

Pass



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Sample ID: 47440821-15 Date Issued: 8/26/24 Batch Result: Pass

#### **Testing Location**

Method References:

FESA Labs - Santa Ana, CA

Cannabinoid Profile (UNODC)

Official Methods of Analysis, Method 2018.11.AOAC INTERNATIONAL (modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva, and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

United Nations Office on Drugs and Crime - Recommended methods for identification and analysis of cannabis and cannabis products

#### 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.

#### 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).

#### **Testing Location:**

FESA Labs 2002 S. Grand Ave., Suite A Santa Ana, CA 92705 (714) 540-0172 www.fesalabs.com