FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Sample ID: 46540603-20
Date Issued: 6/4/24

Certificate of Analysis

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

Alien OG

Client: VitalReleaf

Total CBD	**ND**
Total THC	**25.93 %**
Total Cannabinoids	**29.56 %**

Sample Name:
Alien OG

Matrix:
Plant

Unit Mass:
1 g per unit

Sample ID:
46540603-20

Date Received:
6/3/2024

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)

FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Sample ID: 46540603-20
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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**	**0.097**	**0.97**
Delta 8-THC	0.0020	0.0059	ND	ND
CBC	0.00070	0.0021	ND	ND
THCA	**0.0024**	**0.0073**	**29.459**	**294.59**
Total CBD			ND	ND
Total THC			**25.93**	**259.33**
Total Cannabinoids			**29.56**	**295.56**

Date Tested: 6/3/2024

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

Total CBD = CBDa * 0.877 + CBD

Method References:

Testing Location

Cannabinoid Profile (UNODC)

FESA Labs - Santa Ana, CA

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

Testing Location:

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

FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Sample ID: 46540606-11
Date Issued: 6/7/24

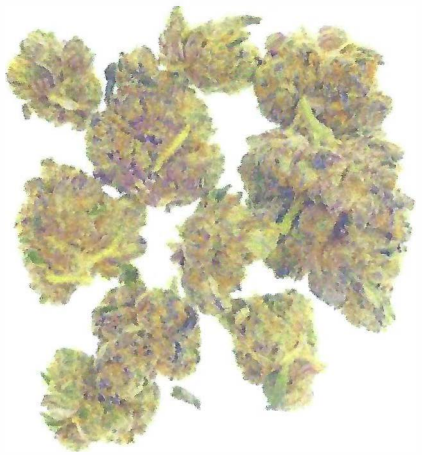
Certificate of Analysis

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

Zereal

Client: VitalReleaf

Total CBD	**ND**
Total THC	**21.04 %**
Total Cannabinoids	**23.95 %**



Sample Name:
Zereal

Matrix:
Plant

Unit Mass:
1 g per unit

Sample ID:
46540606-11

Date Received:
6/6/2024

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)

FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Sample ID: 46540606-11
Date Issued: 6/7/24

Certificate of Analysis

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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**	**0.279**	**2.79**
Delta 8-THC	0.0020	0.0059	ND	ND
CBC	0.00070	0.0021	ND	ND
THCA	**0.0024**	**0.0073**	**23.670**	**236.70**
Total CBD			ND	ND
Total THC			**21.04**	**210.38**
Total Cannabinoids			**23.95**	**239.49**

Date Tested: 6/6/2024

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

Total CBD = CBDa * 0.877 + CBD

Method References:

Testing Location

Cannabinoid Profile (UNODC)

FESA Labs - Santa Ana, CA

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

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FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Sample ID: 46540603-7
Date Issued: 6/4/24

Certificate of Analysis

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

Gush Mintz

Client: VitalReleaf

Total CBD	**ND**
Total THC	**26.96 %**
Total Cannabinoids	**30.73 %**

Sample Name:
Gush Mintz Big

Matrix:
Plant

Unit Mass:
1 g per unit

Sample ID:
46540603-7

Date Received:
6/3/2024

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

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FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Sample ID: 46540603-7
Date Issued: 6/4/24

Certificate of Analysis

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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**	**0.034**	**0.34**
Delta 8-THC	0.0020	0.0059	ND	ND
CBC	0.00070	0.0021	ND	ND
THCA	**0.0024**	**0.0073**	**30.699**	**306.99**
Total CBD			ND	ND
Total THC			**26.96**	**269.57**
Total Cannabinoids			**30.73**	**307.33**

Date Tested: 6/3/2024

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

Total CBD = CBDa * 0.877 + CBD

Method References: **Testing Location**

Cannabinoid Profile (UNODC)

FESA Labs - Santa Ana, CA

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

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