ANAB
ANSI National Accreditation Board
ACCREDITED
ISO/IEC 17025
TESTING LABORATORY

Altitude Consulting

Customer: R & R

Address: Aurora, CO 80011

Sample ID: R&R 30mg Full-Spectrum CBD Infused Gummy Lot 2405

Matrix: Edible

Labnumber: 22I0113-02 **Total mass or volume per unit (g or mL): 9.452**

Cannabinoid Profile

Test Conditions: 20°C
Extraction Technician: SH
Analytical Chemist: SH

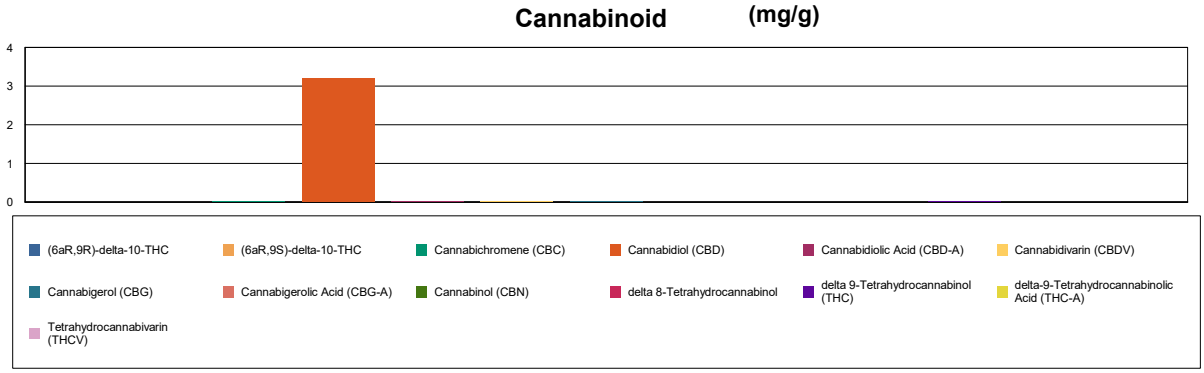
Extraction Date(s)	Analysis Date(s)
9/27/2022	9/27/2022

Cannabinoids (HPLC)		Results		
	LOD (mg/g)	%	mg/g	mg/Gummy
Cannabidivarin (CBDV)		0.0007	0.00736	0.070
Cannabidiolic Acid (CBD-A)		0.002	0.024	0.230
Cannabigerolic Acid (CBG-A)	<0.002			
Cannabigerol (CBG)		0.001	0.013	0.119
Cannabidiol (CBD)		0.32	3.21	30.3
Tetrahydrocannabivarin (THCV)	<0.002			
Cannabinol (CBN)		0.0004	0.00428	0.040
Cannabichromene (CBC)		0.002	0.024	0.223
delta 9-Tetrahydrocannabinol (THC)		0.003	0.028	0.261
delta-9-Tetrahydrocannabinolic Acid (THC-A)	<0.004			
delta 8-Tetrahydrocannabinol	<0.004			
(6aR,9S)-delta-10-THC	<0.004			
(6aR,9R)-delta-10-THC	<0.004			

Cannabinoids Total	%	mg/g
Max Active THC (delta-9-tetrahydrocannabinol)	0.00	0.03
Max Active CBD	0.32	3.23
Total Cannabinoids	0.33	3.31

Following USDA guidelines on uncertainty, Altitude Consulting's uncertainty is calculated to be +/- 3% for all cannabinoids using a coverage factor of 2 (95% confidence interval). Measurement uncertainty has not been factored into reported values.
Blank results indicate the compound was below the limit of detection.

Test Deviation:
Sample names, pictures, and serving size updated 112322.



Gary Brook - Laboratory Director - 12/8/2022

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Terpene Profile

Test Conditions: 18°C

Extraction Technician: SH

Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
11/23/2022	11/23/2022

Terpene (GC/MS)	Results	Terpene (GC/MS)	Results
	ug/g		ug/g
alpha-Pinene		Isoborneol	
Camphene		Hexahydrothymol	
Sabinene		(+)-Borneol and (-)-Borneol	
beta-Myrcene		alpha-Terpineol	
beta-Pinene		gamma-Terpineol	
p-Mentha-1,5-diene		Nerol	
(1S)-(+)-3-Carene		Geraniol	
alpha-Terpinene		(+)-Pulegone	
Ocimene Peak 1		Geranyl Acetate	
(R) - (+)-Limonene		alpha-Cedrene	
Ocimene Peak 2		trans-Caryophyllene	
Eucalyptol (1,8-Cineole)		alpha-Humulene	
gamma-Terpinene		Valencene	
Sabinene Hydrate		cis-Nerolidol	
Terpinolene		trans-Nerolidol	
Linalool		Guaiol	
(+)-Fenchone and L(-)-Fenchone		(-)-Caryophyllene Oxide	
(1R)-Endo-(+)-Fenchyl		(+)-Cedrol	
(-)-Isopulegol		(-)-alpha-Bisabolol (Levomenol)	
Camphor and (1S)-(-)-Camphor			

Blank results indicate the compound was below the limit of detection.

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alpha-Pinene
Camphene
Sabinene
beta-Myrcene
beta-Pinene
beta-Pinene and beta-Myrcene
p-Mentha-1,5-diene
(1S)-(+)-3-Carene
alpha-Terpinene
Ocimene Peak 1
(R) - (+)-Limonene
Ocimene Peak 2
Eucalyptol (1,8-Cineole)
gamma-Terpinene
Sabinene Hydrate
Terpinolene
Linalool
(+)-Fenchone and L(-)-Fenchone
(1R)-Endo-(+)-Fenchyl
(-)-Isopulegol
Camphor and (1S)-(-)-Camphor
Isoborneol
Hexahydrothymol
(+)-Borneol and (-)-Borneol
alpha-Terpineol
gamma-Terpineol
Nerol
Geraniol
(+)-Pulegone
Geranyl Acetate
alpha-Cedrene
trans-Caryophyllene
alpha-Humulene
Valencene
cis-Nerolidol
trans-Nerolidol
Guaiol
(-)-Caryophyllene Oxide
(+)-Cedrol
(-)-alpha-Bisabolol (Levomenol)

Reporting limit is roughly 100 ug/g depending on amount extracted.

Gary Brook - Laboratory Director - 12/8/2022

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Matrix: Edible

Labnumber: 22I0113-02 **Total mass or volume per unit (g or mL): 9.452**

Residual Solvents Profile

Test Conditions: 18°C

Extraction Technician: SH

Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
11/23/2022	11/23/2022

Residual Solvents (GC/MS)	Results
	ug/g
Propane	<26.5
Isobutane	<26.5
Methanol	<26.5
Butane	<26.5
Isopropanol	<26.5
Ethanol	<26.5
2-Methyl Butane	<26.5
Acetonitrile	<26.5
Acetone	<26.5
n-Pentane	<26.5
n-Hexane	<13.3
Tetrahydrofuran	<26.5
Benzene	<0.265
n-Heptane	<26.5
Toluene	<26.5
Ethylbenzene	<26.5
m+p Xylene	<26.5
o-Xylene	<26.5

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Matrix: Edible

Labnumber: 22I0113-03

Pesticide Profile

Test Conditions: °C

Extraction Technician: HEA

Analytical Chemist: MLC

Extraction Date(s)	Analysis Date(s)
12/5/2022	12/6/2022

Pesticides (LC/MS/MS)	Results	LOD	Pesticides (LC/MS/MS)	Results	LOD
	ppm	ppm		ppm	ppm
Acephate		0.206	Acequinocyl		1.03
Acetamiprid		0.103	Aldicarb		0.206
Azoxystrobin		0.103	Bifenthrin		0.103
Boscalid		0.206	Carbaryl		0.103
Carbofuran		0.103	Chlorpyrifos		0.103
Diazinon		0.103	Dimethoate		0.103
Ethoprophos		0.103	Etofenprox		0.206
Etoxazole		0.103	Fenoxycarb		0.103
Fenpyroximate E		0.206	Flonicamid		0.516
Fludioxonil		0.206	Hexythiazox		0.516
Imazalil		0.103	Imidacloprid		0.206
Kresoxim-methyl		0.206	Malathion		0.103
Metalaxyl		0.103	Methiocarb		0.103
Methomyl		0.206	Myclobutanil		0.103
Naled		0.258	Oxamyl		0.516
Piperonyl butoxide		1.03	Propiconazole		0.206
Propoxure		0.103	Spiromesifen		0.103
Spirotetramat		0.103	Spiroxamine		0.206
Tebuconazole		0.206	Thiacloprid		0.103
Thiamethoxam		0.103	Trifloxystrobin		0.103
Abamectin		0.258	Bifenazate		0.103
Chlorantraniliprole		0.103	Clofentezine		0.103
Cyfluthrin		1.03	Cypermethrin		0.516
Daminozide		0.516	DDVP (Dichlorvos)		0.052
Fipronil		0.206	Paclobutrazol		0.206
Permethrins		0.103	Phosmet		0.103
Prallethrin		0.103	Pyrethrins		0.516
Pyridaben		0.103	Spinosad		0.103
Chlorfenapyr		1.03			

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Matrix: Edible

Labnumber: 22I0113-03

Metals Profile

Test Conditions: °C

Extraction Technician: HEA

Analytical Chemist: KSG

Extraction Date(s)	Analysis Date(s)
12/5/2022	12/7/2022

Metals (ICP/MS)	Method Code	Results	Units
Arsenic	ICPMS	<0.098	ppm
Cadmium	ICPMS	<0.098	ppm
Lead	ICPMS	<0.245	ppm
Mercury	ICPMS	<0.098	ppm

Limits for metals vary greatly depending on usage of the sample. Altitude Consulting recommends researching federal and state regulatory limits.

Gary Brook - Laboratory Director - 12/8/2022

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Labnumber: 22I0113-03

Microbial Profile

Test Conditions: °C

Extraction Technician: OMS

Analytical Chemist: TCJ

Extraction Date(s)	Analysis Date(s)
12/1/2022	12/4/2022

Microbials	Method Code	Results	Units
Salmonella	PCR	Not Detecte	per gram
Total Coliform	PetriFilms	<10.0	cfu/g
Aspergillus	PCR	Not Detecte	per gram
E. coli	PetriFilms	<10.0	cfu/g
Yeast	PetriFilms	<10.0	cfu/g
Mold	PetriFilms	<10.0	cfu/g

Limits for microbials vary greatly depending on usage of the sample. Altitude Consulting recommends researching federal and state regulatory limits.

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