

Utah Department of Agriculture and Food **Division of Laboratory Services** 4451 South 2700 West Taylorsville, Utah 84129 (801) 816-3840

CERTIFICATE OF ANALYSIS

Sample Information

UDAF Lab #	HP25084-7	Issue Date:	03/28/2025
Client:	Boojum Group	Client Email:	bk@boojumgroup.com
Producer:	Boojum Group	Sample Type:	Infused Edible Products
Description:	CBD Berry Down Gummy	,	
Batch/Lot Number:	03172025	Date Received:	03/25/2025
Date Collected:		Collected By:	Self-Submitted



Notes:

Testing Summary

Analysis:	Testing Date:	Status:	Notes:
Cannabinoids	03/28/2025		

Approved By:

Date: 03/28/2025

Brandon Forsyth, Ph.D

State Chemist

The results reported herein pertain only to the indicated sample and may not be used as an endorsement of a product. The results are given under applicable provisions of the Utah Code and represent a true statement of the outcomes of the analyses conducted on the sample received by the laboratory. This report may not be reproduced, except in its entirety. © 2025 All Rights Reserved.



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CERTIFICATE OF ANALYSIS

Cannabinoid Analysis Status: --

Sample ID:	HP25084-7	Description:	CBD Berry Down Gummy
Testing Date:	03/28/2025	Reviewed By:	Cameron Cheyne

Method: ACL.AM.003 Analysis performed using High-Performance Liquid Chromatography (HPLC-DAD)

Analyte	Abbreviation	CAS Number	% (w/w)	mg/g
Δ9-Tetrahydrocannabidiol	Δ9-ΤΗС	1972-08-03	0.04%	0.4
Δ8-Tetrahydrocannabidiol	Δ8-ΤΗС	5957-75-5	ND	ND
Δ9-Tetrahydrocannabinolic acid	THCA	23978-85-0	ND	ND
Δ9-Tetrahydrocannabivarin	THCV	31262-37-0	ND	ND
Cannabidiol	CBD	13956-29-1	1.19%	11.9
Cannabidiolic acid	CBDA	1244-58-2	ND	ND
Cannabidivarin	CBDV	24274-48-4	0.04%	0.4
Cannabinol	CBN	521-35-7	ND	ND
Cannabigerol	CBG	25654-31-3	0.03%	0.3
Cannabichromene	CBC	20675-51-8	0.04%	0.4
Cannabigerolic acid	CBGA	25555-57-1	ND	ND
Cannabichromenic acid	CBCA	20408-52-0	ND	ND
Cannabicitran	CBTC	31508-71-1	ND	ND
9(R+S)-Δ6a,10a-Tetrahydrocannabidiol	Δ3-THC	95720-01-07, 95720- 02-8	ND	ND
(6aR,9R)-∆10-Tetrahydrocannabidiol	(6aR,9R)-Δ10-THC	95543-62-7	ND	ND
(6aR,9S)-∆10-Tetrahydrocannabidiol	(6aR,9S)-Δ10-THC	95588-87-7	ND	ND
Total Cannabinoids			1.34%	13.40
Total THC			0.04%	0.4
Total CBD			1.19%	11.90
Total THC Analogs			0.04%	0.4

Unknown Cannabinoid Peak Area: 0.0%

Mass Per Piece: 3.43 g Status: --

Notes:

Total Cannabinoids is calculated as the direct sum of each of the cannabinoid values. Total THC is calculated as $\Delta 9$ -THC + (THCA x 0.877) | Total CBD is calculated as CBD + (CBDA x 0.877). Total THC Analogs is calculated as $\Delta 9$ -THC + (THCA x 0.877) + $\Delta 8$ -THC + CBTC. ND = Not Detected, NQ = Not Quantifiable, NT = Not Tested, <LOQ = Below the limit of quantification

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Comprehensive Analysis Report

Sample Overview

Client: Boojum Group, LLC

2206 W 3000 S Suite F Heber, UT

84032

Sample Name: CBD Berry Down Gummy

Sample Matrix: Gelatinous Cube Sample Lot: 03172025 **Date Received: 03/25/2025**

APRC #: BG250326A





Accreditation #115229
Aromatic Plant Research Center is an ISO 17025:2017 certified laboratory.



Potency

Method: SOP 1-2026.03 Sample Name: CBD Berry Down Gummy APRC Lot Number: BG250326A

Cannabinoid	RT	Total %	Total mg/g
Cannabidivarinic Acid (CBDVA)	ND	ND	ND
Cannabidivarin (CBDV)	2.33	0.05	0.45
Cannabidiolic Acid (CBDA)	ND	ND	ND
Cannabigerolic Acid (CBGA)	ND	ND	ND
Cannabinol (CBN)	5.21	0.01	0.06
Cannabidiol (CBD)	3.49	1.15	11.51
Cannabigerol (CBG)	3.30	0.03	0.30
Tetrahydrocannabivarin (THCV)	ND	ND	ND
Tetrahydrocannabivarin Acid (THCVA)	ND	ND	ND
Delta-9-Tetrahydrocannabinol (Δ9-THC)	6.59	0.04	0.39
Delta-8-Tetrahydrocannabinol (Δ8-THC)	ND	ND	ND
Tetrahydrocannabinolic acid (THCA-A)	ND	ND	ND
Cannabichromene (CBC)	8.29	0.04	0.44
Cannabichromene Acid (CBCA)	ND	ND	ND
$\Delta 10$ and $\Delta 6$ a, 10 a-Tetrahydrocannabinol, mixed isomers	ND	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabidiol	NT	NT	NT
(6aR,9S)-Δ10-Tetrahydrocannabidiol	NT	NT	NT
9(R+S)-Δ6a,10a-Tetrahydrocannabidiol	NT	NT	NT
Cannabicitran (CBTC)	ND	ND	ND

Performed by: Sunita Timsina

Reviewed by: Tessa Crook

	%	mg/g
Total Cannabinoids	1.31	13.15
Total THC ^t	0.04	0.39
Total CBDs	1.15	11.51

 $^{\mathrm{t}}$ Total Thc is calculated by $\Delta 9$ -THC +(THCA-A*0.877)

^STotal CBD is calculated by CBD + (CBDA*0.877)

 $\underline{\text{LOD}} > 0.005\%$ by mass, LOQ > 0.01% by mass

Notes: Number of Gummies Sampled: 6 | Average Mass of Gummies

Sampled: 3.37 g



Heavy Metals

Method: CTLA Sample Name: CBD Berry Down Gummy APRC Lot Number: BG250326A

Analyte	Result (ppm)	LOD (ppm)	Threshold (ppm)	Pass/Fail
Arsenic	0.003	0.001	2.00	Pass
Cadmium	<0.001	0.001	0.82	Pass
Lead	0.010	0.001	1.20	Pass
Mercury	<0.001	0.001	0.40	Pass

Heavy metal analysis is completed in partnership with Contract Testing Laboratories of America, Orem UT.

Performed by: CTLA

Reviewed by: Jordan Morley



Microbial Impurities

Method: SOP 1-2034.01 and 1-2035.01 Sample Name: CBD Berry Down Gummy APRC Lot Number: BG250326A

Total Counts				
Microbial Group:	Result (CFU/g):	Specification:	Disposition:	
Total Aerobic Bacteria	<10	≤10,000	Pass	
Total Yeast and Mold	<10	≤1,000	Pass	

Specific Organism Identification				
Microbial Organism:	Result:	Specification:	Disposition	
Aspergillus flavus	NT	NT	Not Tested	
Aspergillus fumigatus	NT	NT	Not Tested	
Aspergillus niger	NT	NT	Not Tested	
Aspergillus terreus	NT	NT	Not Tested	
E. coli	NT	NT	Not Tested	
STEC	Not Detected	Not Detected	Pass	
Salmonella - Specific Gene	Not Detected	Not Detected	Pass	
Staphylococcus aureus	NT	NT	Not Tested	
Pseudomonas aeruginosa	NT	NT	Not Tested	

Performed by: Heidi Kipp Notes: Foreign Matter: Not Detected.

Reviewed by: <u>Jordan Morley</u>



Pesticides

Method: Sample Name: CBD Berry Down Gummy APRC Lot Number: BG250326A

Pesticide:	Finding	Action Limit (μg/g)	Pass/Fail
Abamectin	ND	0.5	Pass
Acephate	ND	0.4	Pass
Acequinocyl	ND	2.0	Pass
Acetamiprid	ND	0.2	Pass
Aldicarb	ND	0.4	Pass
Azoxystrobin	ND	0.2	Pass
Bifenazate	ND	0.2	Pass
Bifenthrin	ND	0.2	Pass
Boscalid	ND	0.4	Pass
Carbaryl	ND	0.2	Pass
Carbofuran	ND	0.2	Pass
Chlorantraniliprole	ND	0.2	Pass
Chlorfenapyr	ND	1.0	Pass
Chlorpyrifos	ND	0.2	Pass
Clofentezine	ND	0.2	Pass
Cyfluthrin	ND	1.0	Pass
Cypermethrin	ND	1.0	Pass
Daminozide	ND	1.0	Pass
Dichlorvos	ND	0.1	Pass
Diazinon	ND	0.2	Pass
Dimethoate	ND	0.2	Pass
Ethoprophos	ND	0.2	Pass
Etofenprox	ND	0.4	Pass
Etoxazole	ND	0.2	Pass
Fenoxycarb	ND	0.2	Pass
Fenpyroximate	ND	0.4	Pass
Fipronil	ND	0.4	Pass
Flonicamid	ND	1.0	Pass
Fludioxonil	ND	0.4	Pass
	-		

Pesticide:	Finding	Action Limit (µg/g)	Pass/Fai
Hexythiazox	ND	1.0	Pass
Imazalil	ND	0.2	Pass
Imidacloprid	ND	0.4	Pass
Kresoxim-methyl	ND	0.4	Pass
Malathion	ND	0.2	Pass
Metalaxyl	ND	0.2	Pass
Methiocarb	ND	0.2	Pass
Methomyl	ND	0.4	Pass
Methyl parathion	ND	0.2	Pass
MGK-264	ND	0.2	Pass
Myclobutanil	ND	0.2	Pass
Naled	ND	0.5	Pass
Oxamyl	ND	1.0	Pass
Paclobutrazol	ND	0.4	Pass
Permethrins	ND	0.2	Pass
Phosmet	ND	0.2	Pass
Piperonyl butoxide	ND	2.0	Pass
Prallethrin	ND	0.2	Pass
Propiconazole	ND	0.4	Pass
Propoxur	ND	0.2	Pass
Pyrethrin	ND	1.0	Pass
Pyridaben	ND	0.2	Pass
Spinosad	ND	0.2	Pass
Spiromesifen	ND	0.2	Pass
Spirotetramat	ND	0.2	Pass
Spiroxamine	ND	0.4	Pass
Tebuconazole	ND	0.4	Pass
Thiacloprid	ND	0.2	Pass
Thiamethoxam	ND	0.2	Pass
Trifloxystrobin	ND	0.2	Pass

Performed by:

Anil Rokaya Reviewed by: Nicholas Saichek

Pesticide testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29.



Residual Solvents

Method: SOP 1-2027.03 Sample Name: CBD Berry Down Gummy APRC Lot Number: BG250326A

Residual Solvent	Finding (μg/g)	Action Level (μg/g)	Pass/Fail
Dimethyl sulfoxide	ND	5000	Pass
N, N-dimethylacetamide	ND	1090	Pass
1,2 Dimethoxyethane	ND	100	Pass
1,4 Dioxane	ND	380	Pass
1-Butanol	ND	5000	Pass
1-Pentanol	ND	5000	Pass
1-Propanol	ND	5000	Pass
2-Butanone	ND	5000	Pass
2-Butanol	ND	5000	Pass
2-Ethoxyethanol	ND	160	Pass
2-Methylbutane	ND	5000	Pass
2-Propanol	ND	5000	Pass
Acetone	ND	5000	Pass
Acetonitrile	ND	410	Pass
Benzene	ND	2	Pass
Butane	ND	5000	Pass
Cumene	ND	70	Pass
Cyclohexane	ND	3880	Pass
Dichloromethane	ND	600	Pass
2,2-Dimethylbutane	ND	290	Pass
2,3-Dimethylbutane	ND	290	Pass
m,p-Xylene	ND	See Total Xylenes	Pass
o-Xylene	ND	See Total Xylenes	Pass
Ethanol	52.623	5000	Pass
Ethyl Acetate	ND	5000	Pass
Ethyl Benzene	ND	See Total Xylenes	Pass
Ethyl Ether	ND	5000	Pass
Ethylene Glycol	ND	620	Pass
Ethylene Oxide	ND	50	Pass

Residual Solvent	Finding (μg/g)	Action Level (µg/g)	Pass/Fail
Heptane	ND	5000	Pass
Hexane	ND	290	Pass
Isopropyl Acetate	ND	5000	Pass
Methanol	ND	3000	Pass
Methylpropane	ND	5000	Pass
2-Methylpentane	ND	290	Pass
3-Methylpentane	ND	290	Pass
N,N-Dimethylformamide	ND	880	Pass
Pentane	ND	5000	Pass
Propane	ND	5000	Pass
Pyridine	ND	100	Pass
Sulfolane	ND	160	Pass
Tetrahydrofuran	ND	720	Pass
Toluene	ND	890	Pass
Total Xylenes	ND	2170	Pass

† Per Utah state code 4-41a-701(3) Section R68-29-6 ‡ Total Xylenes is a combination of the following: o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene

Overall Disposition: <u>Pass</u>
Performed By: <u>Anil Rokaya</u>
Reviewed By: <u>Tessa Crook</u>



Mycotoxins

Method: Mycotoxin Sample Name: CBD Berry Down Gummy APRC Lot Number: BG250326A

Mycotoxin	Finding (μg/kg)	Limit(μg/kg)	Pass/Fail
Aflatoxin B1:	ND	70	
Aflatoxin B2:	ND		
Aflatoxin G1:	ND		
Aflatoxin G2:	ND		
Total Aflatoxins:	0	20	Pass
Ochratoxin A:	ND	20	Pass

Performed by: Anil Rokaya

Reviewed by: Tessa Crook

Approved By:

Nicholas Saichek, PhD

Senior Scientist Mass Spectrometry, Mass My Potoxin testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29.

04/02/2025