



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

<b>UDAF Lab #</b>	HP24361-2	<b>Issue Date:</b>	12/31/2024
<b>Client:</b>	Boojum Group	<b>Client Email:</b>	bk@boojumgroup.com
<b>Producer:</b>	Boojum Group	<b>Sample Type:</b>	Infused Non-edible Products
<b>Description:</b>	Deep Blue CBD Gel		
<b>Batch/Lot Number:</b>	241217	<b>Date Received:</b>	12/26/2024
<b>Date Collected:</b>		<b>Collected By:</b>	Self-Submitted

Notes:



### Testing Summary

<b>Analysis:</b>	<b>Testing Date:</b>	<b>Status:</b>	<b>Notes:</b>
Cannabinoids	12/30/2024	--	

Approved By:

Brandon Forsyth, Ph.D  
State Chemist

Date: 12/31/2024

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. © 2024 All Rights Reserved.



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## CERTIFICATE OF ANALYSIS

### Cannabinoid Analysis

Status: --

<b>Sample ID:</b>	HP24361-2	<b>Description:</b>	Deep Blue CBD Gel
<b>Testing Date:</b>	12/30/2024	<b>Reviewed By:</b>	Cameron Cheyne

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

Analyte	Abbreviation	CAS Number	% (w/w)	mg/g
Δ9-Tetrahydrocannabinidiol	Δ9-THC	1972-08-03	0.07%	0.7
Δ8-Tetrahydrocannabinidiol	Δ8-THC	5957-75-5	ND	ND
Δ9-Tetrahydrocannabinolic acid	THCA	23978-85-0	ND	ND
Δ9-Tetrahydrocannabivarin	THCV	31262-37-0	<LOQ	<LOQ
Cannabidiol	CBD	13956-29-1	2.15%	21.5
Cannabidiolic acid	CBDA	1244-58-2	ND	ND
Cannabidivarin	CBDV	24274-48-4	0.07%	0.7
Cannabinol	CBN	521-35-7	<LOQ	<LOQ
Cannabigerol	CBG	25654-31-3	0.05%	0.5
Cannabichromene	CBC	20675-51-8	0.07%	0.7
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-Tetrahydrocannabinidiol	Δ3-THC	95720-01-07, 95720-02-8	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabinidiol	(6aR,9R)-Δ10-THC	95543-62-7	ND	ND
(6aR,9S)-Δ10-Tetrahydrocannabinidiol	(6aR,9S)-Δ10-THC	95588-87-7	ND	ND
<b>Total Cannabinoids</b>			2.40%	24.00
Total THC			0.07%	0.7
Total CBD			2.15%	21.50
Total THC Analogs			0.07%	0.7

Unknown Cannabinoid Peak Area: 0.0%

Mass Per Piece: -- Status: --

Notes:

Total Cannabinoids is calculated as the direct sum of each of the cannabinoid values.  
Total THC is calculated as Δ9-THC + (THCA x 0.877) | Total CBD is calculated as CBD + (CBDA x 0.877).  
Total THC Analogs is calculated as Δ9-THC + (THCA x 0.877) + Δ8-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

**Date Received:** 12/30/2024

**Sample Name:** Deep Blue CBD Gel

**APRC #:** BG241230A

**Sample Matrix:** Topical Applicant

**Sample Lot:** 241217

Assay	Disposition	Report Date
Cannabinoid Testing (Potency)	Tested	01/07/2025
Microbial: Quantitative and Pathogen Detection Combo	Tested	01/07/2025



Accreditation #115229

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

## Instrument Analysis Report

### Potency

Method: SOP 1-2026.03

Sample Name: Deep Blue CBD Gel

APRC Lot Number: BG241230A

Cannabinoid	RT	Total %	Total mg/g
Cannabidivarinic Acid (CBDVA)	ND	ND	ND
Cannabidivarin (CBDV)	2.38	0.07	0.75
Cannabidiolic Acid (CBDA)	ND	ND	ND
Cannabigerolic Acid (CBGA)	ND	ND	ND
Cannabinol (CBN)	ND	ND	ND
Cannabidiol (CBD)	3.58	2.27	22.67
Cannabigerol (CBG)	3.37	0.07	0.69
Tetrahydrocannabivarin (THCV)	<LOQ	<LOQ	<LOQ
Tetrahydrocannabivarin Acid (THCVA)	ND	ND	ND
Delta-9-Tetrahydrocannabinol (Δ9-THC)	6.78	0.08	0.77
Delta-8-Tetrahydrocannabinol (Δ8-THC)	ND	ND	ND
Tetrahydrocannabinolic acid (THCA-A)	ND	ND	ND
Cannabichromene (CBC)	8.53	0.08	0.82
Cannabichromene Acid (CBCA)	ND	ND	ND
Δ10 and Δ6a,10a-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: Rakesh Satyal

Reviewed by: Riley Hunter

	%	mg/g
Total Cannabinoids	2.57	25.70
Total THC <sup>t</sup>	0.08	0.77
Total CBD <sup>s</sup>	2.27	22.67

<sup>t</sup>Total Thc is calculated by Δ9-THC + (THCA-A\*0.877)

<sup>s</sup>Total CBD is calculated by CBD + (CBDA\*0.877)

LOD > 0.005% by mass, LOQ > 0.01% by mass

## Instrument Analysis Report

### Microbial Impurities

Method: SOP 1-2034.01 and 1-2035.01

Sample Name: Deep Blue CBD Gel

APRC Lot Number: BG241230A

Total Counts			
Microbial Group:	Result (CFU/g):	Specification:	Disposition:
Total Aerobic Bacteria	<10	≤250	Pass
Total Yeast and Mold	<10	≤250	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	NT	NT	Not Tested
Salmonella - Specific Gene	NT	NT	Not Tested
Staphylococcus aureus	Not Detected	Not Detected	Pass
Pseudomonas aeruginosa	Not Detected	Not Detected	Pass

Performed by: Jordan Morley

Notes: Foreign Matter: Not Detected.

Reviewed by: Nicholas Saichek



**Approved By:**  
Nicholas Saichek, PhD

Senior Scientist Mass Spectrometry  
01/07/2025