

# **CERTIFICATE OF ANALYSIS**

DATE ISSUED 09/07/2024 | OVERALL BATCH RESULT: PASS

#### SAMPLE NAME: Aurora Borealis Joints

Infused Flower/Pre-Roll, Product Inhalable

## **CULTIVATOR / MANUFACTURER**

Business Name: Central Coast Ag

Products, LLC

License Number: CDPH-10003156 Address: 1201 West Chestnut Ave.

Lompoc CA 93436

#### SAMPLE DETAIL

Batch Number: 240001316 Sample ID: 240904L050 Source Metrc UID:

1A4060300002EE1000076351

#### **DISTRIBUTOR**

**Business Name: CENTRAL COAST AG** 

DISTRIBUTION, LLC

License Number: C11-0001495-LIC

Address: 424 COMMERCE CT

LOMPOC CA 93436

Date Collected: 09/04/2024 Date Received: 09/05/2024 Batch Size: 2634.0 units Sample Size: 13.0 units

Unit Mass: 1.8485 grams per Unit

Serving Size:

Sampling Method: QSP 1265 - Sampling of Cannabis and Product Batches





Scan QR code to verify authenticity of results.

# CANNABINOID ANALYSIS - SUMMARY PASS

Sum of Cannabinoids: 40.71%

Total Cannabinoids: 35.93%

Total THC: 34.718%

Total CBD: 0.089%

Sum of Cannabinoids =  $\Delta^9$ -THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa +  $\Delta^8$ -THC + CBL + CBN Total Cannabinoids =  $(\Delta^9$ -THC+0.877\*THCa+ $\Delta^8$ -THC) + (CBD+0.877\*CBDa) + (CBG+0.877\*CBGa) + (THCV+0.877\*THCVa) +

(CBC+0.877\*CBCa) + (CBDV+0.877\*CBDVa) + CBL + CBN Total THC/CBD is calculated using the following formulas to take into

account the loss of a carboxyl group during the decarboxylation step:

Total THC =  $\Delta^9$ -THC + (THCa (0.877)) +  $\Delta^8$ -THC

Total CBD = CBD + (CBDa (0.877))

#### CALCULATED USING DRY-WEIGHT

Moisture: 10.6%

#### **TERPENOID ANALYSIS - SUMMARY**

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 1.4685%

 $\beta$ -Caryophyllene 4.979 mg/g

Limonene 2.280 mg/g

Linalool 1.937 mg/g

## **SAFETY ANALYSIS - SUMMARY**

 $\Delta^9$ -THC per Unit:  $\bigcirc$  PASS

Pesticides: PASS

Mycotoxins: PASS

Residual Solvents: PASS

Heavy Metals: PASS

Microbiology: PASS

Foreign Material: PASS

Water Activity: PASS

These results relate only to the sample included on this report.

This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications

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

All LOC samples were performed and met the prescribed acceptance criteria in 4 CCR section 15730, as attested by: Michael Pham

Job Title: Senior Laboratory Analyst Date: 09/07/2024

Approved by: Josh Wurzer Title: Chief Compliance Officer Date: 09/07/2024



# **CERTIFICATE OF ANALYSIS**



AURORA BOREALIS JOINTS | DATE ISSUED 09/07/2024 | OVERALL BATCH RESULT: 

PASS

# CANNABINOID TEST RESULTS - 09/06/2024 PASS

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD). Calculated using Dry-Weight.  $\textbf{Method:} \ \text{QSP 1157 - Analysis of Cannabinoids by}$ 

TOTAL CANNABINOIDS: 35.93%

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + CBL + CBN

TOTAL THC: 34.718% Total THC (Δ9-THC+0.877\*THCa+Δ8-THC)

TOTAL CBD: 0.089%

Total CBD (CBD+0.877\*CBDa)

TOTAL CBG: 0.7% Total CBG (CBG+0.877\*CBGa)

**TOTAL THCV: 0.164%** Total THCV (THCV+0.877\*THCVa)

**TOTAL CBC: 0.261%** 

Total CBC (CBC+0.877\*CBCa)

TOTAL CBDV: ND Total CBDV (CBDV+0.877\*CBDVa)

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)	
THCa	0.05 / 0.14	±7.528	376.42	37.642	
Δ <sup>9</sup> -THC	0.06 / 0.26	±0.457	17.06	1.706	
CBGa	0.1/0.2	±0.26	6.4	0.64	
CBCa	0.07 / 0.28	±0.114	2.98	0.298	
THCVa	0.07 / 0.20	±0.069	1.87	0.187	
CBG	0.06 / 0.19	±0.041	1.35	0.135	
CBDa	0.02 / 0.19	±0.023	1.02	0.102	
Δ <sup>8</sup> -THC	0.1/0.4	N/A	ND	ND	
THCV	0.1/0.2	N/A	ND	ND	
CBD	0.07 / 0.29	N/A	ND	ND	
CBDV	0.04 / 0.15	N/A	ND	ND	
CBDVa	0.03 / 0.53	N/A	ND	ND	
CBL	0.06 / 0.24	N/A	ND	ND	
CBN	0.1/0.3	N/A	ND	ND	
СВС	0.2/0.5	N/A	ND	ND	
SUM OF CAN	NABINOIDS		407.1 mg/g	40.71%	

# UNIT MASS: 1.8485 grams per Unit

$\Delta^9$ -THC per Unit	1100 per-package limit	31.54 mg/unit	PASS
Total THC per Unit		641.76 mg/unit	
CBD per Unit		ND	
Total CBD per Unit		1.65 mg/unit	
Sum of Cannabinoids per Unit		752.5 mg/unit	
Total Cannabinoids per Unit		664.2 mg/unit	

## MOISTURE TEST RESULT

10.6% Tested 09/06/2024 Method: QSP 1224 -Loss on Drying (Moisture)

#### TERPENOID TEST RESULTS - 09/07/2024

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID). Method: QSP 1192 - Analysis of Terpenoids by GC-FID

FID). Method: QSP 1	192 - Analysis of Te	rpenolas by GC-FID		
COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
$\beta\text{-Caryophyllene}$	0.004 / 0.012	±0.1379	4.979	0.4979
Limonene	0.005 / 0.036	±0.0253	2.280	0.2280
Linalool	0.009/0.036	±0.0573	1.937	0.1937
$\alpha$ -Humulene	0.009 / 0.180	±0.0375	1.498	0.1498
Myrcene	0.008 / 0.025	±0.0082	0.823	0.0823
Fenchol	0.010 / 0.036	±0.0205	0.681	0.0681
Terpineol	0.009 / 0.031	±0.0217	0.454	0.0454
Nerolidol	0.006 / 0.021	±0.0187	0.381	0.0381
α-Bisabolol	0.008 / 0.026	±0.0138	0.332	0.0332
β-Pinene	0.004 / 0.014	±0.0025	0.280	0.0280
$trans\text{-}\beta\text{-}Farnesene$	0.008 / 0.025	±0.0071	0.258	0.0258
Valencene	0.009 / 0.180	±0.0101	0.188	0.0188
Borneol	0.005 / 0.016	±0.0050	0.153	0.0153
Caryophyllene Oxide	0.010 / 0.033	±0.0034	0.094	0.0094
α-Pinene	0.005 / 0.036	±0.0006	0.092	0.0092
Terpinolene	0.008 / 0.036	±0.0013	0.080	0.0080
Geraniol	0.002 / 0.036	±0.0018	0.053	0.0053
Geranyl Acetate	0.004 / 0.036	±0.0017	0.051	0.0051
Citronellol	0.003 / 0.036	±0.0014	0.036	0.0036
Camphene	0.005 / 0.015	±0.0003	0.035	0.0035
β-Ocimene	0.006 / 0.025	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Sabinene Hydrate	0.006 / 0.036	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Fenchone	0.009 / 0.036	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Nerol	0.003 / 0.036	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Sabinene	0.004 / 0.014	N/A	ND	ND
$\alpha$ -Phellandrene	0.006 / 0.036	N/A	ND	ND
$\Delta^3$ -Carene	0.005 / 0.018	N/A	ND	ND
α-Terpinene	0.005 / 0.017	N/A	ND	ND
p-Cymene	0.005 / 0.016	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
$\gamma$ -Terpinene	0.006 / 0.018	N/A	ND	ND
Isopulegol	0.005 / 0.036	N/A	ND	ND
Camphor	0.006 / 0.036	N/A	ND	ND
Isoborneol	0.004/0.012	N/A	ND	ND
Menthol	0.008 / 0.025	N/A	ND	ND
Pulegone	0.003 / 0.011	N/A	ND	ND
α-Cedrene	0.005 / 0.016	N/A	ND	ND
Guaiol	0.009/0.030	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPEN	OIDS		14.685 mg/g	1.4685%



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PASS

# CATEGORY 1 PESTICIDE TEST RESULTS - 09/07/2024 PASS

 $Pesticide \ and \ plant \ growth \ regulator \ analysis \ utilizing \ high-performance \ liquid \ chromatography-mass \ spectrometry (HPLC-MS) \ or \ gas \ chromatography-mass$ spectrometry (GC-MS). \*GC-MS utilized where indicated. Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
Aldicarb	0.03/0.08	≥ LOD	N/A	ND	PASS
Carbofuran	0.02/0.05	≥ LOD	N/A	ND	PASS
Chlordane*	0.03/0.08	≥ LOD	N/A	ND	PASS
Chlorfenapyr*	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Chlorpyrifos	0.02/0.06	≥ LOD	N/A	ND	PASS
Coumaphos	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Daminozide	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Dichlorvos (DDVP)	0.03/0.09	≥LOD	N/A	ND	PASS
Dimethoate	0.03/0.08	≥ LOD	N/A	ND	PASS
Ethoprophos	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Fenoxycarb	0.03/0.08	≥ LOD	N/A	ND	PASS
Fipronil	0.03/0.08	≥ LOD	N/A	ND	PASS
Imazalil	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Methiocarb	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Parathion-methyl	0.03/0.10	≥ LOD	N/A	ND	PASS
Mevinphos	0.03/0.09	≥ LOD	N/A	ND	PASS
Paclobutrazol	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Propoxur	0.03/0.09	≥ LOD	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	≥LOD	N/A	ND	PASS

# CATEGORY 2 PESTICIDE TEST RESULTS - 09/07/2024 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
Abamectin	0.03 / 0.10	0.1	N/A	ND	PASS
Acephate	0.02 / 0.07	0.1	N/A	ND	PASS
Acequinocyl	0.02 / 0.07	0.1	N/A	ND	PASS
Acetamiprid	0.02 / 0.05	0.1	N/A	ND	PASS
Azoxystrobin	0.02 / 0.07	0.1	N/A	ND	PASS
Bifenazate	0.01 / 0.04	0.1	N/A	ND	PASS
Bifenthrin	0.02 / 0.05	3	N/A	ND	PASS
Boscalid	0.03 / 0.09	0.1	N/A	ND	PASS
Captan	0.19/0.57	0.7	N/A	ND	PASS
Carbaryl	0.02 / 0.06	0.5	N/A	ND	PASS
Chlorantranilip- role	0.04 / 0.12	10	N/A	ND	PASS
Clofentezine	0.03 / 0.09	0.1	N/A	ND	PASS

## CATEGORY 2 PESTICIDE TEST RESULTS - 09/07/2024 continued

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Cyfluthrin	0.12 / 0.38	2	N/A	ND	PASS
Cypermethrin	0.11/0.32	1	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.1	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	2	N/A	ND	PASS
Etoxazole	0.02 / 0.06	0.1	N/A	ND	PASS
Fenhexamid	0.03 / 0.09	0.1	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	0.1	N/A	ND	PASS
Flonicamid	0.03 / 0.10	0.1	N/A	ND	PASS
Fludioxonil	0.03 / 0.10	0.1	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	0.1	N/A	ND	PASS
Imidacloprid	0.04 / 0.11	5	N/A	ND	PASS
Kresoxim-methyl	0.02 / 0.07	0.1	N/A	ND	PASS
Malathion	0.03 / 0.09	0.5	N/A	ND	PASS
Metalaxyl	0.02 / 0.07	2	N/A	ND	PASS
Methomyl	0.03 / 0.10	1	N/A	ND	PASS
Myclobutanil	0.03 / 0.09	0.1	N/A	ND	PASS
Naled	0.02 / 0.07	0.1	N/A	ND	PASS
Oxamyl	0.04 / 0.11	0.5	N/A	ND	PASS
Pentachloronitro- benzene (Quintozene)*	0.03/0.09	0.1	N/A	ND	PASS
Permethrin	0.04 / 0.12	0.5	N/A	ND	PASS
Phosmet	0.03 / 0.10	0.1	N/A	ND	PASS
Piperonyl Butoxide	0.02 / 0.07	3	N/A	ND	PASS
Prallethrin	0.03 / 0.08	0.1	N/A	ND	PASS
Propiconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Pyrethrins	0.04 / 0.12	0.5	N/A	ND	PASS
Pyridaben	0.02 / 0.07	0.1	N/A	ND	PASS
Spinetoram	0.02 / 0.07	0.1	N/A	ND	PASS
Spinosad	0.02 / 0.07	0.1	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	0.1	N/A	ND	PASS
Spirotetramat	0.02 / 0.06	0.1	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Thiamethoxam	0.03 / 0.10	5	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	0.1	N/A	ND	PASS



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PASS

MYCOTOXIN TEST RESULTS - 09/07/2024 PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS). Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0 / 6.0		N/A	ND	
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0/3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS

# CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 09/07/2024 PASS



Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS). Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Benzene	0.03 / 0.09	1	N/A	ND	PASS
Chloroform	0.1/0.2	1	N/A	ND	PASS
Ethylene Oxide	0.3 / 0.8	1	N/A	ND	PASS
Dichloromethane (Methylene Chloride)	0.3/0.9	1	N/A	ND	PASS
Trichloroethylene	0.1/0.3	1	N/A	ND	PASS

## CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 09/07/2024 PASS



COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Acetone	20/50	5000	±1.8	55	PASS
Acetonitrile	2/7	410	N/A	ND	PASS
n-Butane	10/50	5000	N/A	ND	PASS
Ethanol	20/50	5000	N/A	ND	PASS
Ethyl Acetate	20/60	5000	N/A	ND	PASS
Ethyl Ether	20 / 50	5000	N/A	ND	PASS
n-Heptane	20/60	5000	N/A	ND	PASS
n-Hexane	2/5	290	N/A	ND	PASS
2-Propanol (Isopropyl Alcohol)	10 / 40	5000	N/A	ND	PASS
Methanol	50/200	3000	±7.0	319	PASS
n-Pentane	20/50	5000	N/A	ND	PASS
Propane	10/20	5000	N/A	ND	PASS
Toluene	7/21	890	N/A	ND	PASS
Total Xylenes	50 / 160	2170	N/A	ND	PASS

#### HEAVY METALS TEST RESULTS - 09/06/2024 PASS

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS). Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g) RESULT	
Arsenic	0.02 / 0.1	0.2	N/A	<loq pass<="" th=""><th></th></loq>	
Cadmium	0.02 / 0.05	0.2	N/A	<loq pass<="" th=""><th></th></loq>	
Lead	0.04 / 0.1	0.5	N/A	ND PASS	
Mercury	0.002 / 0.01	0.1	N/A	<loq pass<="" th=""><th></th></loq>	

# MICROBIOLOGY TEST RESULTS - 09/07/2024 PASS

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants. Method: QSP 1221 - Analysis of Microbiological Contaminants

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing Escherichia coli	Not Detected in 1g	ND	PASS
Salmonella spp.	Not Detected in 1g	ND	PASS
Aspergillus fumigatus	Not Detected in 1g	ND	PASS
Aspergillus flavus	Not Detected in 1g	ND	PASS
Aspergillus niger	Not Detected in 1g	ND	PASS
Aspergillus terreus	Not Detected in 1g	ND	PASS

## FOREIGN MATERIAL TEST RESULTS - 09/07/2024 PASS



Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta. Method: QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

COMPOUND	ACTION LIMIT	RESULT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	None	PASS
Total Sample Area Covered by Mold	>25%	None	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	None	PASS
Insect Fragment Count	> 1 per 3 grams	0.0	PASS
Hair Count	> 1 per 3 grams	0.0	PASS
Mammalian Excreta Count	> 1 per 3 grams	0.0	PASS



# Regulatory Compliance Testing CERTIFICATE OF ANALYSIS



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WATER ACTIVITY TEST RESULTS - 09/07/2024 PASS

**Method:** QSP 1227 - Analysis of Water Activity in Cannabis and Cannabis Products

COMPOUND	LOD/LOQ (Aw)	ACTION LIMIT (Aw)	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)	RESULT
Water Activity	0.030 / 0.15	0.65	±0.028	0.58	PASS