CERTIFICATE OF ANALYSIS
HEMP QUALITY ASSURANCE TEST

Sample Name:

Arthridiol - 3000mg - Joint Cream

Infused, Hemp

Date Issued:
02/14/2025

(https://sclaboratories.s3.amazonaws.com
AWSAccessKeyId=AKIA4A5QPJ7BN6X4IY2F

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Sample Details

Sample ID: 250205K057

Batch Number:
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Cultivator / Manufacturer

Show Details

Distributor / Tested For

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Cannabinoid Analysis - Summary

View Full Results

Total THC: **1.550 mg/unit**

Total CBD: **3001.050 mg/unit**

Sum of Cannabinoids: **3040.300 mg/unit**

Total Cannabinoids: **3040.300 mg/unit**

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 = Δ^9-THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ^9-THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8-THC + CBL + CBN

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

Why are Sum of Cannabinoids and Total Cannabinoids calculated separately?

Safety Analysis - Summary

View Full Results

Pesticides: **ND**

Mycotoxins: **ND**

Residual Solvents: **Detected**

Heavy Metals: **ND**

Microbiology (PCR): **ND**

Foreign Material: **Pass**

View Complete Test Results: Collapse All

Cannabinoid Analysis Tested

Show Less

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

Summary

Total THC:
1.550 mg/unit
(Δ^9-THC+0.877*THCa)

Total CBD:
3001.050 mg/unit
(CBD+0.877*CBDa)

Total Cannabinoids:
3040.300 mg/unit

Total CBG: 2.600 mg/unit
Total CBG (CBG+0.877*CBGa)

Total THCV: ND
Total THCV (THCV+0.877*THCVa)

Total CBC: <LOQ
Total CBC (CBC+0.877*CBCa)

Total CBDV: 35.100 mg/unit
Total CBDV (CBDV+0.877*CBDVa)

Learn more

The cannabis plant contains dozens of active compounds called cannabinoids (https://www.sclabs.com/cannabinoids/). These compounds are the primary contributors to the psychoactive effects of cannabis.

Cannabinoid testing (https://www.sclabs.com/cannabis/) determines the potency of a sample to aid in dosage considerations.

Cannabinoid Test Results | 02/08/2025

Result Views

Table Pie Chart

Filter by:

Swipe left on table to see additional columns

Compound	LOD/LOQ (mg/g)	Measurement Uncertainty (mg/g)	Result (mg/g)	Result (%)
Cannabidiol (CBD)	0.004 / 0.011	±2.2388	**60.021**	**6.0021**
Cannabidivarin (CBDV)	0.002 / 0.012	±0.0286	**0.702**	**0.0702**
Cannabigerol (CBG)	0.002 / 0.006	±0.0025	**0.052**	**0.0052**
Δ9 Tetrahydrocannabinol (Δ9THC)	0.002 / 0.014	±0.0017	**0.031**	**0.0031**
Cannabichromene (CBC)	0.003 / 0.010	N/A	**<LOQ**	**<LOQ**
Cannabicyclol (CBL)	0.003 / 0.010	N/A	**ND**	**ND**
Cannabinol (CBN)	0.001 / 0.007	N/A	**ND**	**ND**
Cannabichromenic Acid (CBCa)	0.001 / 0.015	N/A	**ND**	**ND**
Cannabidiolic Acid (CBDa)	0.001 / 0.026	N/A	**ND**	**ND**
Cannabigerolic Acid (CBGa)	0.002 / 0.007	N/A	**ND**	**ND**
Tetrahydrocannabivarin (THCV)	0.002 / 0.012	N/A	**ND**	**ND**
Tetrahydrocannabinolic Acid (THCa)	0.001 / 0.005	N/A	**ND**	**ND**
SUM OF CANNABINOIDS			**60.806 mg/g**	**6.0806%**

Compound	LOD/LOQ (mg/g)	Measurement Uncertainty (mg/g)	Result (mg/g)	Result (%)
Cannabidivarinic Acid (CBDVa)	0.001 / 0.018	N/A	**ND**	**ND**
Tetrahydrocannabivarinic Acid (THCVa)	0.002 / 0.019	N/A	**ND**	**ND**
∆8 Tetrahydrocannabinol (Δ8THC)	0.01 / 0.02	N/A	**ND**	**ND**
SUM OF CANNABINOIDS			**60.806 mg/g**	**6.0806%**

Unit Mass: 50 GRAMS

Swipe left on table to see additional columns

Δ^9-THC per Unit	**1.550 mg/unit**
Total THC per Unit	**1.550 mg/unit**
CBD per Unit	**3001.050 mg/unit**
Total CBD per Unit	**3001.050 mg/unit**
Sum of Cannabinoids per Unit	**3040.300 mg/unit**
Total Cannabinoids per Unit	**3040.300 mg/unit**

Pesticide Analysis **ND** Show Less

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

Pesticide Test Results | 02/14/2025 | ND

Filter by:

Swipe left on table to see additional columns

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
Aldicarb	0.03 / 0.08	N/A	**ND**
Carbofuran	0.02 / 0.05	N/A	**ND**
Chlordane*	0.03 / 0.08	N/A	**ND**
Chlorfenapyr*	0.03 / 0.10	N/A	**ND**
Chlorpyrifos	0.02 / 0.06	N/A	**ND**
Coumaphos	0.02 / 0.07	N/A	**ND**
Daminozide	0.02 / 0.07	N/A	**ND**

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
Dichlorvos (DDVP)	0.03 / 0.09	N/A	**ND**
Dimethoate	0.03 / 0.08	N/A	**ND**
Ethoprophos	0.03 / 0.10	N/A	**ND**
Etofenprox	0.02 / 0.06	N/A	**ND**
Fenoxycarb	0.03 / 0.08	N/A	**ND**
Fipronil	0.03 / 0.08	N/A	**ND**
Imazalil	0.02 / 0.06	N/A	**ND**
Methiocarb	0.02 / 0.07	N/A	**ND**
Mevinphos	0.03 / 0.09	N/A	**ND**
Paclobutrazol	0.02 / 0.05	N/A	**ND**
Parathion-methyl	0.03 / 0.10	N/A	**ND**
Propoxur	0.03 / 0.09	N/A	**ND**
Spiroxamine	0.03 / 0.08	N/A	**ND**
Thiacloprid	0.03 / 0.10	N/A	**ND**

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
Abamectin	0.03 / 0.10	N/A	**ND**
Acephate	0.02 / 0.07	N/A	**ND**
Acequinocyl	0.02 / 0.07	N/A	**ND**
Acetamiprid	0.02 / 0.05	N/A	**ND**
Azoxystrobin	0.02 / 0.07	N/A	**ND**
Bifenazate	0.01 / 0.04	N/A	**ND**
Bifenthrin	0.02 / 0.05	N/A	**ND**
Boscalid	0.03 / 0.09	N/A	**ND**
Captan	0.19 / 0.57	N/A	**ND**
Carbaryl	0.02 / 0.06	N/A	**ND**
Chlorantraniliprole	0.04 / 0.12	N/A	**ND**
Clofentezine	0.03 / 0.09	N/A	**ND**
Cyfluthrin	0.12 / 0.38	N/A	**ND**
Cypermethrin	0.11 / 0.32	N/A	**ND**
Diazinon	0.02 / 0.05	N/A	**ND**

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
Dimethomorph	0.03 / 0.09	N/A	**ND**
Etoxazole	0.02 / 0.06	N/A	**ND**
Fenhexamid	0.03 / 0.09	N/A	**ND**
Fenpyroximate	0.02 / 0.06	N/A	**ND**
Flonicamid	0.03 / 0.10	N/A	**ND**
Fludioxonil	0.03 / 0.10	N/A	**ND**
Hexythiazox	0.02 / 0.07	N/A	**ND**
Imidacloprid	0.04 / 0.11	N/A	**ND**
Kresoxim-methyl	0.02 / 0.07	N/A	**ND**
Malathion	0.03 / 0.09	N/A	**ND**
Metalaxyl	0.02 / 0.07	N/A	**ND**
Methomyl	0.03 / 0.10	N/A	**ND**
Myclobutanil	0.03 / 0.09	N/A	**ND**
Naled	0.02 / 0.07	N/A	**ND**

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
Oxamyl	0.04 / 0.11	N/A	**ND**
Pentachloronitrobenzene (Quintozene)*	0.03 / 0.09	N/A	**ND**
Permethrin	0.04 / 0.12	N/A	**ND**
Phosmet	0.03 / 0.10	N/A	**ND**
Piperonyl Butoxide	0.02 / 0.07	N/A	**ND**
Prallethrin	0.03 / 0.08	N/A	**ND**
Propiconazole	0.02 / 0.07	N/A	**ND**
Pyrethrins	0.04 / 0.12	N/A	**ND**
Pyridaben	0.02 / 0.07	N/A	**ND**
Spinetoram	0.02 / 0.07	N/A	**ND**
Spinosad	0.02 / 0.07	N/A	**ND**
Spiromesifen	0.02 / 0.05	N/A	**ND**
Spirotetramat	0.02 / 0.06	N/A	**ND**
Tebuconazole	0.02 / 0.07	N/A	**ND**

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
Thiamethoxam	0.03 / 0.10	N/A	**ND**
Trifloxystrobin	0.03 / 0.08	N/A	**ND**

Mycotoxin Analysis ND

Show Less

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

Mycotoxin Test Results | 02/14/2025 | ND

Filter by:

Swipe left on table to see additional columns

Compound	LOD/LOQ (µg/kg)	Measurement Uncertainty (µg/kg)	Result (µg/kg)
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**
Ochratoxin A	6.3 / 19.2	N/A	**ND**

Compound	LOD/LOQ (µg/kg)	Measurement Uncertainty (µg/kg)	Result (µg/kg)
Total Aflatoxin		±	**ND**

Residual Solvents Analysis **Detected**

Show Less

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

Residual Solvents Test Results | 02/13/2025 | DETECTED

Filter by:

Swipe left on table to see additional columns

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
1,2-Dichloroethane	0.05 / 0.1	N/A	**ND**
Benzene	0.03 / 0.09	N/A	**ND**
Chloroform	0.1 / 0.2	N/A	**ND**
Dichloromethane (Methylene Chloride)	0.3 / 0.9	N/A	**ND**
Ethylene Oxide	0.3 / 0.8	N/A	**ND**
Trichloroethylene	0.1 / 0.3	N/A	**ND**

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
2-Propanol (Isopropyl Alcohol)	10 / 40	±1.3	**48**
Acetone	20 / 50	N/A	**ND**
Acetonitrile	2 / 7	N/A	**<LOQ**
Ethanol	20 / 50	±168.9	**5843**
Ethyl Acetate	20 / 60	N/A	**ND**
Ethyl Ether	20 / 50	N/A	**ND**
Methanol	50 / 200	N/A	**ND**
n-Butane	10 / 50	N/A	**ND**
n-Heptane	20 / 60	N/A	**ND**
n-Hexane	2 / 5	N/A	**ND**
n-Pentane	20 / 50	N/A	**ND**
Propane	10 / 20	N/A	**ND**
Toluene	7 / 21	N/A	**ND**
Total Xylenes	50 / 160	N/A	**ND**

Heavy Metals Analysis **ND**

Show Less

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

Heavy Metals Test Results | 02/13/2025 | ND

Filter by:

Swipe left on table to see additional columns

Compound	LOD/LOQ (µg/g)	Measurement Uncertainty (µg/g)	Result (µg/g)
Arsenic	0.02 / 0.1	N/A	**ND**
Cadmium	0.02 / 0.05	N/A	**ND**
Lead	0.04 / 0.1	N/A	**ND**
Mercury	0.002 / 0.01	N/A	**ND**

Microbiology Analysis ND

Show Less

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Microbiology Test Results (PCR) | 02/12/2025 | ND

Filter by:

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Compound	Result
***Salmonella* spp.**	**ND**

Compound	Result
Shiga toxin-producing *Escherichia coli*	**ND**

Foreign Material Analysis Pass

Show Less

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

Foreign Material Test Results | 02/12/2025 | PASS

Filter by:

Swipe left on table to see additional columns

Compound	Action Limit	Result	Result
Hair Count	> 1 per 3 grams	**0.0**	**Pass**
Insect Fragment Count	> 1 per 3 grams	**0.0**	**Pass**
Mammalian Excreta Count	> 1 per 3 grams	**0.0**	**Pass**
Total Sample Area Covered by Mold	>25%	**None**	**Pass**
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	**None**	**Pass**

Compound	Action Limit	Result	Result
Total Sample Area Covered by an Imbedded Foreign Material	>25%	**None**	**Pass**

COA ID: 250205K057-002

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References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), µg/g = ppm, µg/kg = ppb

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