



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 23-005000/D004.R000
Report Date: 05/03/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/25/23 12:45

Customer: USA Hemp
Product identity: 3000mg CBN TN30DSCO1200
Project Number: DRCN1200
Client/Metric ID: Container Size: 30grams
Laboratory ID: 23-005000-0001

Summary

Potency:

Analyte per 30g	Result	Limits	Units	Status	
CBN per 30g	3840		mg/30g		THC-Total per Serving Size <LOQ
Analyte per 1g	Result	Limits	Units	Status	CBD-Total per Serving Size <LOQ
CBN per 1g	128		mg/1g		THC-Total per Serving Size <LOQ
					CBD-Total per Serving Size <LOQ
(Reported in milligrams per serving)					

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Less than LOQ for all analytes.

Metals:

Less than LOQ for all analytes.



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Customer: USA Hemp
Product identity: 3000mg CBN TN30DSCO1200
Project Number: DRCN1200
Client/Metric ID: Container Size: 30grams
Sample Date:
Laboratory ID: 23-005000-0001
Evidence of Cooling: No
Temp: 20.0
Relinquished by: usps
Serving Size #1: 30 g
Serving Size #2: 1 g

Sample Results

Potency per 30g					
Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se		Batch: 2306791	
				Analyze: 4/27/23 11:42:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30g	< LOQ		mg/30g	0.0313	
CBC-A per 30g	< LOQ		mg/30g	0.0313	
CBC-Total per 30g	< LOQ		mg/30g	0.0588	
CBD per 30g	< LOQ		mg/30g	0.0313	
CBD-A per 30g	< LOQ		mg/30g	0.0313	
CBD-Total per 30g	< LOQ		mg/30g	0.0588	
CBDV per 30g	< LOQ		mg/30g	0.0313	
CBDV-A per 30g	< LOQ		mg/30g	0.0313	
CBDV-Total per 30g	< LOQ		mg/30g	0.0584	
CBE per 30g	< LOQ		mg/30g	0.0313	
CBG per 30g	< LOQ		mg/30g	0.0313	
CBG-A per 30g	< LOQ		mg/30g	0.0313	
CBG-Total per 30g	< LOQ		mg/30g	0.0584	
CBL per 30g	< LOQ		mg/30g	0.0313	
CBL-A per 30g	< LOQ		mg/30g	0.939	
CBL-Total per 30g	< LOQ		mg/30g	1.76	
CBN per 30g	3840		mg/30g	93.9	
CBT per 30g	< LOQ		mg/30g	0.0313	
Δ8-THCV per 30g	< LOQ		mg/30g	0.0313	
Δ10-THC-9R per 30g	< LOQ		mg/30g	0.0313	
Δ10-THC-9S per 30g	< LOQ		mg/30g	0.0313	
Δ10-THC-Total per 30g	< LOQ		mg/30g	0.0626	
Δ8-THC per 30g	< LOQ		mg/30g	0.0313	
Δ9-THC per 30g	< LOQ		mg/30g	0.0313	
exo-THC per 30g	< LOQ		mg/30g	0.0313	
THC-A per 30g	< LOQ		mg/30g	0.939	
THC-Total per 30g	< LOQ		mg/30g	1.76	
THCV per 30g	< LOQ		mg/30g	0.0313	
THCV-A per 30g	< LOQ		mg/30g	0.0313	
THCV-Total per 30g	< LOQ		mg/30g	0.0588	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



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Potency per 30g **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2306791 **Analyze:** 4/27/23 11:42:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 30g	3840		mg/30g		

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2306791 **Analyze:** 4/27/23 11:42:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.0313	
CBC-A per 1g	< LOQ		mg/1g	0.0313	
CBC-Total per 1g	< LOQ		mg/1g	0.0588	
CBD per 1g	< LOQ		mg/1g	0.0313	
CBD-A per 1g	< LOQ		mg/1g	0.0313	
CBD-Total per 1g	< LOQ		mg/1g	0.0588	
CBDV per 1g	< LOQ		mg/1g	0.0313	
CBDV-A per 1g	< LOQ		mg/1g	0.0313	
CBDV-Total per 1g	< LOQ		mg/1g	0.0584	
CBE per 1g	< LOQ		mg/1g	0.0313	
CBG per 1g	< LOQ		mg/1g	0.0313	
CBG-A per 1g	< LOQ		mg/1g	0.0313	
CBG-Total per 1g	< LOQ		mg/1g	0.0584	
CBL per 1g	< LOQ		mg/1g	0.0313	
CBL-A per 1g	< LOQ		mg/1g	0.0313	
CBL-Total per 1g	< LOQ		mg/1g	0.0588	
CBN per 1g	128		mg/1g	3.13	
CBT per 1g	< LOQ		mg/1g	0.0313	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0313	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0313	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0313	
Δ8-THC per 1g	< LOQ		mg/1g	0.0313	
Δ9-THC per 1g	< LOQ		mg/1g	0.0313	
exo-THC per 1g	< LOQ		mg/1g	0.0313	
THC-A per 1g	< LOQ		mg/1g	0.0313	
THC-Total per 1g	< LOQ		mg/1g	0.0588	
THCV per 1g	< LOQ		mg/1g	0.0313	
THCV-A per 1g	< LOQ		mg/1g	0.0313	
THCV-Total per 1g	< LOQ		mg/1g	0.0588	
Total Cannabinoids per 1g	128		mg/1g		



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Solvents											Method: Residual Solvents by GC/MS ^b					Units $\mu\text{g/g}$		Batch 2306832		Analyze 04/28/23 11:54 AM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes													
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass														
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200															
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass														
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200															
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0															
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass														
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass														
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass														
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass														
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass														
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass														
Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200															
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass														
Methylpropane (Isobutane)	< LOQ		200			n-Butane	< LOQ		200															
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0															
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200															
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass														
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass														
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass														



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2306806 Analyze 04/28/23 06:52 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [¥]	< LOQ	0.50	0.250	pass		Acephate [¥]	< LOQ	0.40	0.200	pass	
Acequinocyl [¥]	< LOQ	2.0	1.00	pass		Acetamiprid [¥]	< LOQ	0.20	0.100	pass	
Aldicarb [¥]	< LOQ	0.40	0.200	pass		Azoxystrobin [¥]	< LOQ	0.20	0.100	pass	
Bifenazate [¥]	< LOQ	0.20	0.100	pass		Bifenthrin [¥]	< LOQ	0.20	0.100	pass	
Boscalid [¥]	< LOQ	0.40	0.200	pass		Carbaryl [¥]	< LOQ	0.20	0.100	pass	
Carbofuran [¥]	< LOQ	0.20	0.100	pass		Chlorantraniliprole [¥]	< LOQ	0.20	0.100	pass	
Chlorfenapyr [¥]	< LOQ	1.0	0.500	pass		Chlorpyrifos [¥]	< LOQ	0.20	0.100	pass	
Clofentezine [¥]	< LOQ	0.20	0.100	pass		Cyfluthrin [¥]	< LOQ	1.0	0.500	pass	
Cypermethrin [¥]	< LOQ	1.0	0.500	pass		Daminozide [¥]	< LOQ	1.0	0.500	pass	
Diazinon [¥]	< LOQ	0.20	0.100	pass		Dichlorvos [¥]	< LOQ	1.0	0.500	pass	
Dimethoate [¥]	< LOQ	0.20	0.100	pass		Ethoprophos [¥]	< LOQ	0.20	0.100	pass	
Etofenprox [¥]	< LOQ	0.40	0.200	pass		Etoazole [¥]	< LOQ	0.20	0.100	pass	
Fenoxycarb [¥]	< LOQ	0.20	0.100	pass		Fenpyroximate [¥]	< LOQ	0.40	0.200	pass	
Fipronil [¥]	< LOQ	0.40	0.200	pass		Flonicamid [¥]	< LOQ	1.0	0.400	pass	
Fludioxonil [¥]	< LOQ	0.40	0.200	pass		Hexythiazox [¥]	< LOQ	1.0	0.400	pass	
Imazali [¥]	< LOQ	0.20	0.100	pass		Imidacloprid [¥]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [¥]	< LOQ	0.40	0.200	pass		Malathion [¥]	< LOQ	0.20	0.100	pass	
Metalaxyl [¥]	< LOQ	0.20	0.100	pass		Methiocarb [¥]	< LOQ	0.20	0.100	pass	
Methomyl [¥]	< LOQ	0.40	0.200	pass		MGK-264 [¥]	< LOQ	0.20	0.100	pass	
Myclobutanil [¥]	< LOQ	0.20	0.100	pass		Naled [¥]	< LOQ	0.50	0.250	pass	
Oxamyl [¥]	< LOQ	1.0	0.500	pass		Paclobotrazole [¥]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [¥]	< LOQ	0.20	0.100	pass		Permethrin [¥]	< LOQ	0.20	0.100	pass	
Phosmet [¥]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [¥]	< LOQ	2.0	1.00	pass	
Prallethrin [¥]	< LOQ	0.20	0.100	pass		Propiconazole [¥]	< LOQ	0.40	0.200	pass	
Propoxur [¥]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [¥]	< LOQ	1.0	0.500	pass	
Pyridaben [¥]	< LOQ	0.20	0.100	pass		Spinosad [¥]	< LOQ	0.20	0.100	pass	
Spiromesifen [¥]	< LOQ	0.20	0.100	pass		Spirotetramat [¥]	< LOQ	0.20	0.100	pass	
Spiroxamine [¥]	< LOQ	0.40	0.200	pass		Tebuconazole [¥]	< LOQ	0.40	0.200	pass	
Thiacloprid [¥]	< LOQ	0.20	0.100	pass		Thiamethoxam [¥]	< LOQ	0.20	0.100	pass	
Trifloxystrobin [¥]	< LOQ	0.20	0.100	pass							



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Terpenes				Method: J AOAC 2015 V98-6	Units %	Batch 2306784	Analyze 04/26/23 07:04 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(±)-Camphor	< LOQ	0.018	0.00%		(-)-a-Terpineol	< LOQ	0.018	0.00%	
(-)-caryophyllene oxide	< LOQ	0.018	0.00%		(-)-Guaiol	< LOQ	0.018	0.00%	
(-)-Isopulegol	< LOQ	0.018	0.00%		(-)-β-Pinene	< LOQ	0.018	0.00%	
(+)-Borneol	< LOQ	0.018	0.00%		(+)-Cedrol	< LOQ	0.018	0.00%	
(+)-fenchol	< LOQ	0.018	0.00%		(+)-Pulegone	< LOQ	0.018	0.00%	
(±)-cis-Nerolidol	< LOQ	0.018	0.00%		(±)-fenchone	< LOQ	0.018	0.00%	
(±)-trans-Nerolidol	< LOQ	0.018	0.00%		(R)-(+)-Limonene	< LOQ	0.018	0.00%	
a-Bisabolol	< LOQ	0.018	0.00%		a-cedrene	< LOQ	0.018	0.00%	
a-phellandrene	< LOQ	0.018	0.00%		a-pinene	< LOQ	0.018	0.00%	
a-Terpinene	< LOQ	0.018	0.00%		Camphene	< LOQ	0.018	0.00%	
cis-β-Ocimene	< LOQ	0.006	0.00%		d-3-Carene	< LOQ	0.018	0.00%	
Eucalyptol	< LOQ	0.018	0.00%		farnesene	< LOQ	0.018	0.00%	
gamma-Terpinene	< LOQ	0.018	0.00%		Geraniol	< LOQ	0.018	0.00%	
Geranyl acetate	< LOQ	0.018	0.00%		Humulene	< LOQ	0.018	0.00%	
Isoborneol	< LOQ	0.018	0.00%		Linalool	< LOQ	0.018	0.00%	
Menthol	< LOQ	0.018	0.00%		nerol	< LOQ	0.018	0.00%	
p-Cymene	< LOQ	0.018	0.00%		Sabinene	< LOQ	0.018	0.00%	
Sabinene hydrate	< LOQ	0.018	0.00%		β-Caryophyllene	< LOQ	0.018	0.00%	
β-Myrcene	< LOQ	0.018	0.00%		Terpinolene	< LOQ	0.018	0.00%	
trans-β-Ocimene	< LOQ	0.012	0.00%		valencene	< LOQ	0.018	0.00%	
Total Terpenes	< LOQ								

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0866	2306795	04/27/23 AOAC 2013.06 (mod.) [‡]	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0866	2306795	04/27/23 AOAC 2013.06 (mod.) [‡]	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0866	2306795	04/27/23 AOAC 2013.06 (mod.) [‡]	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.0433	2306795	04/27/23 AOAC 2013.06 (mod.) [‡]	pass	



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

^p = ISO/IEC 17025:2017 accredited method.

[¥] = TNI accredited analyte.

Units of Measure

g = g

$\mu\text{g/g}$ = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/30g = Milligram per 30g

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager