Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-000245/D001.R000
Report Date: 01/16/2025
ORELAP#: OR100028
Purchase Order:
Received: 01/09/25 11:59

Customer: NW Natural Goods
Product identity: HEMP - DHB 0002
Metrc ID: .
Metrc Source ID:
Laboratory ID: 25-000245-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status
CBD per 4g	0.171		mg/4g	
Δ8-THC per 4g	0.181		mg/4g	
Δ9-THC per 4g	10.0		mg/4g	

Delta-9-THC-Total per 10.0 mg/4g

CBD-Total per Serving Size <LOQ

(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Multi-Residue Pesticide Profile	< LOQ for all analytes		

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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Customer: NW Natural Goods
United States of America (USA)
Product identity: HEMP - DHB 0002
Metrc ID: .
Metrc Source ID:
Material: Cannabinoid Edible
Sample Date:
Laboratory ID: 25-000245-0001
Evidence of Cooling: No
Temp: 19.4
Relinquished by: BCR
Serving Size #1: 4 g

Sample Results

Potency per 4g **Method:** J AOAC 2015 V98-6 (mod)[þ] **Units** mg/se **Batch:** 2500273 **Analyze:** 1/13/25 5:49:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	< LOQ		mg/4g	0.123	
CBC-A per 4g	< LOQ		mg/4g	0.123	
CBC-Total per 4g	< LOQ		mg/4g	0.231	
CBD per 4g	0.171		mg/4g	0.123	
CBD-A per 4g[⊥]	< LOQ		mg/4g	0.123	
CBD-Total per 4g[⊥]	< LOQ		mg/4g	0.231	
CBDV per 4g	< LOQ		mg/4g	0.123	
CBDV-A per 4g	< LOQ		mg/4g	0.123	
CBDV-Total per 4g	< LOQ		mg/4g	0.230	
CBE per 4g	< LOQ		mg/4g	0.123	
CBG per 4g	< LOQ		mg/4g	0.123	
CBG-A per 4g	< LOQ		mg/4g	0.123	
CBG-Total per 4g	< LOQ		mg/4g	0.230	
CBL per 4g	< LOQ		mg/4g	0.123	
CBL-A per 4g	< LOQ		mg/4g	0.123	
CBL-Total per 4g	< LOQ		mg/4g	0.231	
CBN per 4g	< LOQ		mg/4g	0.123	
CBT per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.246	
Δ8-THC per 4g[⊥]	0.181		mg/4g	0.123	
Δ8-THCV per 4g	< LOQ		mg/4g	0.123	
Δ9-THC per 4g[⊥]	10.0		mg/4g	0.123	
Δ9-THC-Total per 4g	10.0		mg/4g	0.231	
Δ9-THCP per 4g	< LOQ		mg/4g	0.123	
Δ9-THCV per 4g	< LOQ		mg/4g	0.123	
Δ9-THCV-A per 4g	< LOQ		mg/4g	0.123	
Δ9-THCV-Total per 4g	< LOQ		mg/4g	0.231	

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Potency per 4g

Method: J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2500273 **Analyze:** 1/13/25 5:49:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
exo-THC per 4g	< LOQ		mg/4g	0.123	
THC-A per 4g⊥	< LOQ		mg/4g	0.123	
Total Cannabinoids per 4g	10.4		mg/4g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2500185	01/12/25	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2500185	01/12/25	AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2500186	01/13/25	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2500186	01/13/25	AOAC 2014.05 (RAPID)		

Solvents

Method: Residual Solvents by HS-GC-MSþ **Units** µg/g **Batch** 2500322 **Analyze** 01/15/25 03:38 PM

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	

Pesticides

Method: AOAC 2007.01 **Units** mg/kg **Batch** 2500288 **Analyze** 01/14/25 02:24 PM

Analyte	Result	Limits	Status	Notes
Multi-Residue Pesticide Profile	< LOQ for all analytes			

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Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic⊥	< LOQ	0.200	mg/kg	0.0198	2500277	01/14/25	AOAC 2013.06 (mod.)þ	pass	
Cadmium⊥	< LOQ	0.200	mg/kg	0.0198	2500277	01/14/25	AOAC 2013.06 (mod.)þ	pass	
Lead⊥	< LOQ	0.500	mg/kg	0.0198	2500277	01/14/25	AOAC 2013.06 (mod.)þ	pass	
Mercury⊥	< LOQ	0.100	mg/kg	0.00990	2500277	01/14/25	AOAC 2013.06 (mod.)þ	pass	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Moisture (Loss on Drying)	16.1		g/100g	0.10	2500279	01/13/25	AOAC 925.10 (mod.)		
Water Activity	0.702		Aw	0.030	2500238	01/13/25	AOAC 978.18		

Notes:
See attached Mycotoxin results

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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.

þ = ISO/IEC 17025:2017 accredited method.
⊥ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram
g = Gram
g/100g = Grams per 100 Grams
µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/4g = Milligram per 4g
% = Percentage of sample
Aw = Water Activity
% wt = µg/g divided by 10,000

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Residue List

Method AOAC 2007.01 **Units** mg/kg **Analyzed** 1/14/25

Parameter	LOQ	Parameter	LOQ	Parameter	LOQ	Parameter	LOQ
2,4-D	0.10	2,4-DB	0.10	2,4-DP	0.10	2,4,5-T	0.10
2,4,5-TP	0.10	Abamectin (Avermectin)	0.10	Acephate	0.20	Acequinocyl	0.10
Acetamiprid	0.10	Acetochlor	0.20	Acibenzolar-s-methyl	0.10	Acifluorfen	0.10
Acrinathrin	0.10	Afidopyropen	0.10	Alachlor	0.20	Aldicarb	0.10
Aldicarb-sulfone	0.10	Aldicarb-sulfoxide	0.10	Aldrin	0.10	Ametoctradin	0.10
Ametryn	0.10	Aminocyclopyrachlor	0.10	Anilazine	0.30	Aspon	0.10
Asulam	0.10	Atrazine	0.10	Atrazine-desethyl	0.10	Azadirachtin	0.10
Azinphos-ethyl	0.10	Azinphos-methyl	0.10	Azoxystrobin	0.10	Benalaxyl	0.10
Bendiocarb	0.10	Benfluralin	0.10	Benoxacor	0.10	Bensulide	0.10
Bentazone	0.10	Benzovindiflupyr	0.10	BHC (α, β, γ, δ isomers)	0.10	Bifenazate	0.10
Bifenox	0.10	Bifenthrin	0.10	Binapacryl	0.40	Bioresmethrin	0.10
Bitertanol	0.20	Boscalid	0.10	Broflanilide	0.10	Bromacil	0.20
Bromophos-ethyl	0.20	Bromophos-methyl	0.10	Bromopropylate	0.10	Bromoxynil	0.10
Bromuconazole	0.10	Bupirimate	0.10	Buprofezin	0.10	Butachlor	0.10
Butoxycarboxim	0.10	Butralin	0.20	Butylate	0.10	Cadusafos	0.10
Captafol	1.00	Captan	0.20	Carbaryl	0.10	Carbendazim	0.10
Carbofuran	0.10	Carbofuran-3-hydroxy	0.10	Carbophenothion	0.10	Carbophenothion-methyl	0.10
Carboxin	0.10	Carfentrazone-ethyl	0.10	Chlorantraniliprole	0.10	Chlordane	0.10
Chlordimeform	0.10	Chlorfenapyr	0.20	Chlorfenson	0.10	Chlorfenvinphos	0.10
Chlorimuron-ethyl	0.10	Chlornitrofen	0.20	Chlorobenzilate	0.10	Chloroneb	0.10
Chlorothalonil	0.40	Chlorpropham (CIPC)	0.10	Chlorpyrifos-ethyl	0.10	Chlorpyrifos-methyl	0.10
Chlorsulfuron	0.10	Chlorthal-dimethyl (Dacthal, D	0.10	Chlorthion	0.20	Chlorthiophos	0.10
Cinerin I	0.10	Clethodim	0.10	Clethodim-sulfone	0.10	Clethodim-sulfoxide	0.10
Clofentezine	0.10	Clomazone	0.10	Clopyralid	0.10	Clothianidin	0.10
Coumaphos	0.10	Crotoxyphos	0.10	Cyanazine	0.10	Cyanofenphos	0.10
Cyanophos	0.40	Cyantraniliprole	0.10	Cyazofamid	0.10	Cycloate	0.10
Cycloxydim	0.10	Cyflufenamid	0.10	Cyflumetofen	0.10	Cyfluthrin (incl. Beta-Cyfluthrin	0.20
Cyhalothrin, lambda	0.10	Cymoxanil	0.10	Cypermethrin and isomers (su	0.10	Cyprodinil	0.10
Cyromazine	0.10	DDD-o,p'	0.10	DDD-p,p'	0.10	DDE-o,p'	0.10
DDE-p,p'	0.10	DDT-o,p'	0.10	DDT-p,p'	0.10	DEF (Tribufos)	0.10
Deltamethrin	0.10	Demeton	0.20	Demeton-s-methyl	0.20	Demeton-s-methyl sulfone	0.20
Desmedipham	0.10	Diallate	0.10	Diazinon	0.10	Diazoxon (Diazinon OA)	0.10
Dicamba	0.10	Dichlobenil	0.10	Dichlofenthion	0.10	Dichlofluanid	0.10
Dichlorbenzamide	0.10	Dichlorvos	0.10	Diclobutrazol	0.10	Diclofop	0.10

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Residue List

Method AOAC 2007.01 **Units** mg/kg **Analyzed** 1/14/25

Parameter	LOQ	Parameter	LOQ	Parameter	LOQ	Parameter	LOQ
Diclofop-methyl	0.10	Dicloran	0.40	Dicofol o,p	0.20	Dicofol-p,p	0.20
Dicrotophos	0.10	Dieldrin	0.10	Diethofencarb	0.10	Diethyltoluamide (DEET)	0.10
Difenoconazole	0.10	Diflubenzuron	0.10	Diflufenzopyr	0.10	Dimethenamid	0.10
Dimethoate	0.10	Dimethomorph	0.10	Diniconazole	0.10	Dinocap	0.10
Dinoseb	0.10	Dinotefuran	0.10	Dioxathion	0.10	Diphenamid	0.10
Diphenylamine	0.10	Disulfoton	0.20	Disulfoton-sulfone	0.10	Disulfoton-sulfoxide	0.10
Dithianon	0.10	Dithiopyr	0.10	Diuron	0.10	Diuron metabolite (DCPMU)	0.10
DNOC (Dinitrocresol)	0.10	Edifenphos	0.10	Endosulfan I (alpha)	0.20	Endosulfan II (beta)	0.20
Endosulfan sulfate	0.10	Endrin	0.20	Endrin Aldehyde	0.20	EPN	0.10
EPTC	0.10	Esfenvalerate	0.20	Etaconazole	0.10	Ethaboxam	0.10
Ethalfluralin	0.10	Ethiofencarb	0.10	Ethion	0.10	Ethirimol	0.10
Ethofumesate	0.10	Ethoprophos	0.10	Ethoxyquin	0.20	Etofenprox	0.10
Etoxazole	0.10	Etridiazole	0.10	Etrimfos	0.10	Famoxadone	0.20
Famphur	0.10	Fenamidone	0.10	Fenamiphos	0.10	Fenamiphos-sulfone	0.10
Fenamiphos-sulfoxide	0.10	Fenarimol	0.10	Fenazaquin	0.10	Fenbuconazole	0.10
Fenbutatin oxide	0.10	Fenchlorphos	0.10	Fenchlorphos-oxon	0.10	Fenhexamid	0.10
Fenitrothion	0.10	Fenobucarb	0.10	Fenoxaprop-p-ethyl	0.10	Fenoxycarb	0.10
Fenpropathrin	0.10	Fenpyroximate	0.10	Fenson	0.20	Fensulfothion	0.10
Fenthion	0.10	Fenuron	0.10	Fipronil	0.10	Flonicamid	0.10
Fluazifop	0.10	Fluazinam	0.10	Fluchloralin	0.10	Flucythrinate	0.30
Fludioxonil	0.10	Flufenacet	0.10	Flumetsulam	0.10	Flumioxazin	0.10
Fluometuron	0.10	Fluopicolide	0.10	Fluopyram	0.10	Fluoxastrobin	0.10
Fluprimidol	0.10	Flupyradifurone	0.10	Fluridone	0.10	Fluroxypyr	0.10
Flusilazole	0.10	Fluthiacet-methyl	0.10	Flutianil	0.10	Flutolanil	0.10
Flutriafol	0.10	Fluxapyroxad	0.10	Folpet	0.10	Fomesafen	0.10
Fonofos	0.10	Foramsulfuron	0.10	Forchlorfenuron	0.10	Formetanate	0.10
Furathiocarb	0.10	Halosulfuron-methyl	0.10	Haloxyfop	0.10	Heptachlor	0.10
Heptachlor epoxide	0.10	Hexachlorobenzene	0.10	Hexaconazole	0.10	Hexazinone	0.10
Hexythiazox	0.10	Hydroprene	0.10	Imazalil	0.10	Imazamox	0.10
Imazapic	0.10	Imazapyr	0.10	Imazaquin	0.10	Imazethapyr	0.10
Imidacloprid	0.10	Indaziflam	0.10	Indoxacarb	0.10	Iprobenfos	0.10
Iprodione	0.10	Isazophos	0.10	Isobenzan	0.10	Isocarbophos	0.10
Isodrin	0.10	Isofenphos	0.10	Isofenphos-methyl	0.10	Isofenphos-oxon	0.10
Isofetamid	0.10	Isoprocarb	0.10	Isopropalin	0.10	Isoprothiolane	0.10

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Parameter	LOQ	Parameter	LOQ	Parameter	LOQ	Parameter	LOQ
Isoproturon	0.10	Isoxaben	0.10	Isoxaflutole	0.10	Jasmolin I	0.10
Kresoxim-methyl	0.10	Lactofen	0.20	Lenacil	0.10	Linuron	0.10
Malaoxon	0.10	Malathion	0.10	Mandestrobin	0.10	Mandipropamid	0.10
MCPA	0.10	MCPB	0.10	MCPP (Mecoprop)	0.10	MCPP-P	0.10
Mecarbam	0.10	Mefentrifluconazole	0.10	Mepanipyrim	0.10	Mesosulfuron-methyl	0.10
Mesotrione	0.10	Metalaxyl	0.10	Metaldehyde	0.10	Metconazole	0.10
Methacrifos	0.10	Methamidophos	0.10	Methidathion	0.10	Methiocarb	0.10
Methiocarb-sulfone	0.10	Methiocarb-sulfoxide	0.10	Methiozolin	0.10	Methomyl	0.10
Methoxychlor	0.10	Methoxyfenozide	0.10	Metobromuron	0.10	Metolacarb	0.10
Metolachlor	0.10	Metrafenone	0.10	Metribuzin	0.10	Metsulfuron-methyl	0.10
Mevinphos	0.10	Mexacarbate	0.10	MGK-264	0.10	Mirex	0.10
Molinate	0.10	Monocrotophos	0.10	Monolinuron	0.10	Myclobutanil	0.10
Naled	0.10	Napropamide	0.10	Neburon	0.10	Nicosulfuron	0.10
Nitrapyrin	0.10	Nitrofen	0.20	Norflurazon	0.10	Novaluron	0.10
Nuarimol	0.20	O-Phenylphenol	0.50	Omethoate	0.10	Oryzalin	0.10
Oxadiazon	0.10	Oxadixyl	0.10	Oxamyl	0.10	Oxamyl-oxime	0.10
Oxathiapiprolin	0.10	Oxychlordane	0.10	Oxydemeton-methyl	0.10	Oxyfluorfen	0.10
Oxythioquinox	0.20	Paclobutrazole	0.10	Paraoxon-ethyl	0.10	Paraoxon-methyl	0.10
Parathion-ethyl	0.10	Parathion-methyl	0.30	Penconazole	0.10	Pendimethalin	0.10
Penflufen	0.10	Pentachloroaniline	0.10	Pentachloroanisole	0.10	Pentachlorobenzene	0.10
Pentachlorophenol	0.10	Pentachlorothioanisole	0.30	Penthiopyrad	0.10	Permethrin	0.10
Perthane	0.10	Phenmedipham	0.10	Phenothrin	0.10	Phenthoate	0.10
Phorate	0.10	Phorate OA	0.10	Phorate-sulfone	0.10	Phorate-sulfoxide	0.10
Phosalone	0.10	Phosmet	0.10	Phosmet oxon	0.10	Phosphamidon	0.10
Phoxim	0.10	Picloram	0.10	Pinoxaden	0.10	Piperonyl butoxide	0.10
Pirimicarb	0.10	Pirimiphos-ethyl	0.10	Pirimiphos-methyl	0.10	Prallethrin	0.10
Primisulfuron-methyl	0.10	Prochloraz	0.10	Procymidone	0.10	Prodiamine	0.10
Profenofos	0.10	Profluralin	0.10	Promecarb	0.10	Prometon	0.10
Prometryn	0.10	Pronamide (Propyzamid)	0.10	Propachlor	0.10	Propamocarb	0.10
Propanil	0.10	Propargite	0.10	Propazine	0.10	Propetamphos	0.10
Propham	0.10	Propiconazole	0.10	Propoxur	0.10	Propoxycarbazone sodium	0.10
Prosulfuron	0.10	Prothioconazole	0.10	Prothiofos	0.10	Pydiflumetofen	0.10
Pymetrozine	0.10	Pyraclostrobin	0.10	Pyraflufen-ethyl	0.10	Pyrazophos	0.10
Pyrethrins (total)	0.10	Pyridaben	0.10	Pyridate	0.10	Pyrifluquinazon	0.10

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Parameter	LOQ	Parameter	LOQ	Parameter	LOQ	Parameter	LOQ
Pyrimethanil	0.10	Pyriproxyfen	0.10	Pyroxasulfone	0.10	Pyroxsulam	0.10
Quinalphos	0.10	Quinclorac	0.10	Quinoxyfen	0.10	Quintozene (PCNB)	0.10
Quizalofop	0.10	Resmethrin	0.10	Rimsulfuron	0.10	Rotenone	0.10
S-421	0.10	Saflufenacil	0.10	Sebuthylazine	0.10	Sedaxane	0.10
Sethoxydim	0.10	Siduron	0.10	Simazine	0.10	Simetryn	0.10
Spinetoram	0.10	Spinosad	0.10	Spirodiclofen	0.10	Spiromesifen	0.10
Spirotetramat	0.10	Spirotetramat enol	0.10	Spiroxamine	0.10	Sulfallate	0.10
Sulfentrazone	0.30	Sulfometuron-methyl	0.10	Sulfosulfuron	0.10	Sulfotep	0.10
Sulfoxaflor	0.10	Sulprofos	0.10	Tau-fluvalinate	0.10	Tebuconazole	0.10
Tebufenozide	0.10	Tebuthiuron	0.10	Tecnazene	0.10	Tefluthrin	0.10
Tembotrione	0.10	Terbacil	0.40	Terbufos	0.10	Terbufos-sulfone	0.10
Terbufos-sulfoxide	0.10	Terbuthylazine	0.10	Terbutryn	0.10	Tetrachlorvinphos	0.10
Tetraconazole	0.10	Tetradifon	0.10	Tetramethrin	0.10	Tetrasul	0.10
Thiabendazol 5 hydroxy	0.10	Thiabendazole	0.10	Thiacloprid	0.10	Thiamethoxam	0.10
Thifensulfuron-methyl	0.10	Thiobencarb	0.10	Thiodicarb	0.10	Thiometon	0.20
Thionazin	0.10	Thiophanate-methyl	0.10	Tolclofos-methyl	0.10	Tolfenpyrad	0.10
Tolylfluanid	0.10	Topramezone	0.10	Tralkoxydim	0.10	Triadimefon	0.10
Triadimenol	0.10	Triallate	0.10	Triasulfuron	0.10	Triazophos	0.10
Tribenuron-methyl	0.10	Trichlorfon (Metrifonate)	0.10	Triclopyr	0.20	Trifloxystrobin	0.10
Trifloxysulfuron	0.10	Triflumizole	0.10	Trifluralin	0.10	Triflusulfuron-methyl	0.10
Triforine	0.10	Trinexapac-ethyl	0.10	Triticonazole	0.10	Vinclozolin	0.10
Zoxamide	0.10						

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

Report Number: 25-000245/D001.R000
Report Date: 01/16/2025
ORELAP#: OR100028
Purchase Order:
Received: 01/09/25 11:59

Certificate of Analysis

Provided for quality control or research and development purposes.

Columbia Labs

12423 NE Whitaker Way
Portland, OR 97230
cannahemp@tentamus.com
(503) 254-1794
Lic. #010-1003224D558

Sample: 2501CH0203.1139

Strain: NA
Batch#: ; Batch Size: g
Sample Received: 01/10/2025; Report Created: 01/13/2025
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

000245-01

Ingestible, Soft Chew, Other
Harvest Process Lot: ; METRC Batch: ; METRC Sample:

Mycotoxins

Pass

1996 LCQQQ3 20250110-1

Analyte	LOQ	Limit	Result	Status
	PPB	PPB	PPB	
B1	10.00		<LOQ	Tested
B2	10.00		<LOQ	Tested
G1	10.00		<LOQ	Tested
G2	10.00		<LOQ	Tested
Ochratoxin A	10.00	20.00	<LOQ	Pass
Total Aflatoxins	10.00	20.00	<LOQ	Pass

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample pesticide results.

5691 SE International Way
Portland, OR
(503) 305-5252
http://chemhistory.com
Lic# OLCC 010-1002015CA5E ORELAP 4057

Patrick Trujillo
Laboratory Director

Values reported relate only to the product tested. ChemHistory makes no claims as to the consumer safety or other risks associated with any detected or non-detected levels of any pesticides or residual solvents. This Certificate shall not be reproduced except in full, without the written approval of ChemHistory. ORELAP accredited ID#4057, ISO 17025 accredited ID# 5487.01, and OLCC Licensed Cannabis Testing Laboratory #010-1002015CA5E.

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Certificate of Analysis

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Columbia Labs
12423 NE Whitaker Way
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cannahemp@tentamus.com
(503) 254-1794
Lic. #010-1003224D558

Sample: 2501CH0203.1139
Strain: NA
Batch#: ; Batch Size: g
Sample Received: 01/10/2025; Report Created: 01/13/2025
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

000245-01
Ingestible, Soft Chew, Other
Harvest Process Lot: ; METRC Batch: ; METRC Sample:

Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1996 LCQQQ3 20250110-1	MRSB01092503CN	Mycotoxins	Sample Duplicate

QC Notes
None

Aflatoxins	ICV amount	Blank amount	LCS amount	CCV amount	LCS Expected	LCS % Recovery	Units	LCS Acceptance Limits
B1	1018.61	0	194.3	1048.44	200	0.9715	ppb	60-120%
B2	953.65	0	193.92	1010.78	200	0.970	ppb	60-120%
G1	909.05	0	171.27	1012.62	200	0.856	ppb	60-120%
G2	913.35	0	199.2	1025.76	200	0.996	ppb	60-120%
Ochratoxin A	1081.58	0	241.33	1215.22	200	1.20665	ppb	60-120%

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Report Number: 25-000245/D001.R000
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ORELAP#: OR100028
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Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2500273**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0317	0.0316	%	100	80.0 - 120	Acceptable	
CBDV	2	0.0345	0.0336	%	103	80.0 - 120	Acceptable	
CBE	2	0.0348	0.0339	%	102	80.0 - 120	Acceptable	
CBDA	1	0.0363	0.0353	%	103	90.0 - 110	Acceptable	
CBGA	1	0.0353	0.0345	%	102	80.0 - 120	Acceptable	
CBG	1	0.0348	0.0336	%	103	80.0 - 120	Acceptable	
CBD	1	0.0341	0.0332	%	103	90.0 - 110	Acceptable	
THCV	2	0.0325	0.0337	%	96.4	80.0 - 120	Acceptable	
d8THCV	2	0.0340	0.0344	%	98.8	80.0 - 120	Acceptable	
THCVA	2	0.0314	0.0308	%	102	80.0 - 120	Acceptable	
CBN	1	0.0321	0.0324	%	99.1	80.0 - 120	Acceptable	
exo-THC	2	0.0306	0.0313	%	97.6	80.0 - 120	Acceptable	
d9THC	1	0.0329	0.0332	%	99.2	90.0 - 110	Acceptable	
d8THC	1	0.0325	0.0340	%	95.6	90.0 - 110	Acceptable	
9S-d10THC	1	0.0334	0.0351	%	95.4	80.0 - 120	Acceptable	
CBL	2	0.0288	0.0318	%	90.5	80.0 - 120	Acceptable	
9R-d10THC	1	0.0345	0.0364	%	94.9	80.0 - 120	Acceptable	
CBC	2	0.0320	0.0335	%	95.5	80.0 - 120	Acceptable	
THCA	1	0.0372	0.0354	%	105	90.0 - 110	Acceptable	
CBCA	2	0.0336	0.0325	%	103	80.0 - 120	Acceptable	
CBLA	2	0.0338	0.0330	%	103	80.0 - 120	Acceptable	
d9THCP	2	0.0283	0.0322	%	87.8	80.0 - 120	Acceptable	
CBT	2	0.0285	0.0338	%	84.3	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBDV	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBE	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBDA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBGA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBG	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBD	<LOQ	0.00321	%	< 0.00321	Acceptable	
THCV	<LOQ	0.00321	%	< 0.00321	Acceptable	
d8THCV	<LOQ	0.00321	%	< 0.00321	Acceptable	
THCVA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBN	<LOQ	0.00321	%	< 0.00321	Acceptable	
exo-THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
d9THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
d8THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
9S-d10THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBL	<LOQ	0.00321	%	< 0.00321	Acceptable	
9R-d10THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBC	<LOQ	0.00321	%	< 0.00321	Acceptable	
THCA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBCA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBLA	<LOQ	0.00321	%	< 0.00321	Acceptable	
d9THCP	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBT	<LOQ	0.00321	%	< 0.00321	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent

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Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2500273**

Sample Duplicate Sample ID: **25-000227-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBG	0.00635	0.00711	0.00326	%	11.3	< 20	Acceptable	
CBD	0.268	0.266	0.00326	%	0.550	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
d9THC	0.254	0.253	0.00326	%	0.511	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBC	0.267	0.266	0.00326	%	0.417	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBT	0.00371	0.00359	0.00326	%	3.33	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent

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Revision: 2 Document ID: 7087
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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2500322

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		556	585	µg/g	95.0	60	-	120	
Isobutane	ND	<	200		700	770	µg/g	90.9	60	-	120	
Butane	ND	<	200		716	769	µg/g	93.1	60	-	120	
2,2-Dimethylpropane	ND	<	200		886	956	µg/g	92.7	60	-	120	
Methanol	ND	<	200		1560	1620	µg/g	96.3	60	-	120	
Ethylene Oxide	ND	<	30		55.5	57.7	µg/g	96.2	60	-	120	
2-Methylbutane	ND	<	200		1530	1640	µg/g	93.3	60	-	120	
Pentane	ND	<	200		1560	1640	µg/g	95.1	60	-	120	
Ethanol	ND	<	200		1560	1620	µg/g	96.3	70	-	130	
Ethyl Ether	ND	<	200		1580	1630	µg/g	96.9	60	-	120	
2,2-Dimethylbutane	ND	<	30		198	212	µg/g	93.4	60	-	120	
Acetone	ND	<	200		1580	1630	µg/g	96.9	60	-	120	
2-Propanol	ND	<	200		1590	1620	µg/g	98.1	60	-	120	
Ethyl Formate	ND	<	500		1200	1600	µg/g	75.0	70	-	130	
Acetonitrile	ND	<	100		473	504	µg/g	93.8	60	-	120	
Methyl Acetate	ND	<	500		1530	1600	µg/g	95.6	70	-	130	
2,3-Dimethylbutane	ND	<	30		193	189	µg/g	102.1	60	-	120	
Dichloromethane	ND	<	60		491	538	µg/g	91.3	60	-	120	
2-Methylpentane	ND	<	30		180	182	µg/g	98.9	60	-	120	
MTBE	ND	<	500		1510	1600	µg/g	94.4	70	-	130	
3-Methylpentane	ND	<	30		176	179	µg/g	98.3	60	-	120	
Hexane	ND	<	30		174	178	µg/g	97.8	60	-	120	
1-Propanol	ND	<	500		1510	1600	µg/g	94.4	70	-	130	
Methylethylketone	ND	<	500		1530	1600	µg/g	95.6	70	-	130	
Ethyl acetate	ND	<	200		1580	1620	µg/g	97.5	60	-	120	
2-Butanol	ND	<	200		1600	1620	µg/g	98.8	60	-	120	
Tetrahydrofuran	ND	<	100		494	511	µg/g	96.7	60	-	120	
Cyclohexane	ND	<	200		1560	1620	µg/g	96.3	60	-	120	
2-methyl-1-propanol	ND	<	500		1510	1600	µg/g	94.4	70	-	130	
Benzene	ND	<	1		5.73	6.03	µg/g	95.0	60	-	120	
Isopropyl Acetate	ND	<	200		1620	1620	µg/g	100.0	60	-	120	
Heptane	ND	<	200		1610	1620	µg/g	99.4	60	-	120	
1-Butanol	ND	<	500		1540	1600	µg/g	96.3	70	-	130	
Propyl Acetate	ND	<	500		1600	1610	µg/g	99.4	70	-	130	
1,4-Dioxane	ND	<	100		499	503	µg/g	99.2	60	-	120	
2-Ethoxyethanol	ND	<	30		174	176	µg/g	98.9	60	-	120	
Methylisobutylketone	ND	<	500		1550	1610	µg/g	96.3	70	-	130	
3-Methyl-1-butanol	ND	<	500		1520	1600	µg/g	95.0	70	-	130	
Ethylene Glycol	ND	<	200		453	501	µg/g	90.4	60	-	120	
Toluene	ND	<	100		536	543	µg/g	98.7	60	-	120	
Isobutyl Acetate	ND	<	500		1570	1600	µg/g	98.1	70	-	130	
1-Pentanol	ND	<	500		1560	1600	µg/g	97.5	70	-	130	
Butyl Acetate	ND	<	500		1570	1600	µg/g	98.1	70	-	130	
Ethylbenzene	ND	<	200		951	983	µg/g	96.7	60	-	120	
m,p-Xylene	ND	<	200		994	1030	µg/g	96.5	60	-	120	
o-Xylene	ND	<	200		960	979	µg/g	98.1	60	-	120	
Cumene	ND	<	30		171	183	µg/g	93.4	60	-	120	
Anisole	ND	<	500		1610	1610	µg/g	100.0	70	-	130	
DMSO	ND	<	500		1450	1600	µg/g	90.6	70	-	130	
1,2-dimethoxyethane	ND	<	50		159	164	µg/g	97.0	70	-	130	
Triethylamine	ND	<	500		1490	1600	µg/g	93.1	70	-	130	
N,N-dimethylformamide	ND	<	150		442	481	µg/g	91.9	70	-	130	
N,N-dimethylacetamide	ND	<	150		516	486	µg/g	106.2	70	-	130	
Pyridine	ND	<	50		160	168	µg/g	95.2	70	-	130	
Sulfolane	ND	<	50		136	165	µg/g	82.4	70	-	130	
1,2-Dichloroethane	ND	<	1		1.1	1	µg/g	110.0	70	-	130	
Chloroform	ND	<	1		1.09	1	µg/g	109.0	70	-	130	
Trichloroethylene	ND	<	1		1.05	1	µg/g	105.0	70	-	130	
1,1-Dichloroethane	ND	<	1		1.04	1	µg/g	104.0	70	-	130	

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QC - Sample Duplicate **Sample ID: 25-000245-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

µg/g- Microgram per gram or ppm

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	25-000245/D001.R000
Report Date:	01/16/2025
ORELAP#:	OR100028
Purchase Order:	
Received:	01/09/25 11:59

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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.