



# OREGON

## Environmental Laboratory Accreditation Program

### ORELAP Fields of Accreditation



Columbia Laboratories Inc.

12423 NE Whitaker Way  
Portland, OR 97230

**ORELAP ID:** OR100028

**EPA CODE:** OR00011

**Certificate:** OR100028 - 027

Issue Date: 6/30/2022 Expiration Date: 6/29/2023

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Matrix Reference	Analyte Code	Analyte	Method Code	Description
<b>Biological Tissue</b>				
AOAC 2007.01 & EN 15662: LC-MS/MS			805	Pesticides by LC-MS-MS
	7366	Abamectin		
	7000	Acephate		
	7002	Acequinocyl		
	7003	Acetamiprid		
	5445	Aflatoxin B1		
	5450	Aflatoxin B2		
	5455	Aflatoxin G1		
	5460	Aflatoxin G2		
	7010	Aldicarb (Temik)		
	7076	Azoxystrobin		
	7116	Bifenazate		
	7117	Bifenthrin		
	7128	Boscalid		
	7195	Carbaryl (Sevin)		
	7205	Carbofuran (Furaden)		
	7247	Chlorantraniliprole		
	7329	Chlorfenapyr		
	7300	Chlorpyrifos		
	7966	Clofentezine		
	7345	Cyfluthrin		
	7346	Cypermethrin		
	7348	Daminozide		
	7410	Diazinon		
	8610	Dichlorvos (DDVP, Dichlorvos)		
	7475	Dimethoate		
	7570	Ethoprop		
	7573	Etofenprox		



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
	7574	Etoxazole		
	7597	Fenoxycarb		
	7598	Fenpyroximate		
	7623	Fipronil		
	7628	Flonicamid		
	7629	Fludioxonil		
	7707	Hexythiazox		
	7718	Imazalil		
	7702	Imidacloprid		
	7747	Kresoxim-methyl		
	7770	Malathion		
	7790	Metalaxyl		
	7800	Methiocarb (Mesurol)		
	7805	Methomyl (Lannate)		
	7825	Methyl parathion (Parathion, methyl)		
	7860	MGK-264		
	7893	Myclobutanil		
	7905	Naled		
	5473	Ochratoxin A		
	7940	Oxamyl		
	7947	Paclobutrazol		
	7975	Permethrin (total)		
	8000	Phosmet (Imidan)		
	9550	Piperonyl butoxide		
	8022	Prallethrin		
	8077	Propiconazole		
	8080	Propoxur (Baygon)		
	8247	Pyrethrins (total)		
	8097	Pyridaben		
	8136	Spinosad		
	8137	Spiromesifen		



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
	8139	Spirotetramat		
	8141	Spiroxamine		
	8174	Tebuconazole		
	8214	Thiacloprid		
	8216	Thiamethoxam		
	8287	Trifloxystrobin		
AOAC 2013.06	50003355	Determination of Arsenic, Cadmium, Mercury, and Lead in Foods by Pressure Digestion and Inductively Coupled Plasma/ Mass Spectrometry		
	1010	Arsenic		
	1030	Cadmium		
	1075	Lead		
	1095	Mercury		
AOAC 966.02 - Gravimetric	810	Moisture in tobacco		
	3850	Moisture content		
AOAC 978.18	809	Water Activity		
	910	Water Activity		
GENE-UP IS1086 1	60020306	GENE-UP Aspergillus Molds in Cannabis		
	5465	Aspergillus		
J AOAC 2015 V98-6	818	Cannabinoids in Cannabis by HPLC-UV		
	5415	Cannabidiol (CBD)		
	5420	Cannabidolic acid (CBDA)		
	7386	delta-8 Tetrahydrocannabinol (d8 THC)		
	5405	delta-9 Tetrahydrocannabinol (d9 THC)		
	5410	delta-9 Tetrahydrocannabinolic acid (d9 THCA)		
ORELAP-SOP-001 4.1	90019811	Protocol for Collecting Samples of Usable Marijuana		
	1405	Incremental Sampling		



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
	1441	Sampling		
<b>Drinking Water</b>				
EPA 200.7 4.4			10013806	ICP - metals
	1025	Boron		
	1035	Calcium		
	1070	Iron		
	1085	Magnesium		
	1090	Manganese		
	1125	Potassium		
	1155	Sodium		
EPA 200.8 5.4			10014605	Metals by ICP-MS
	1000	Aluminum		
	1005	Antimony		
	1010	Arsenic		
	1015	Barium		
	1020	Beryllium		
	1025	Boron		
	1030	Cadmium		
	1040	Chromium		
	1050	Cobalt		
	1055	Copper		
	1075	Lead		
	1090	Manganese		
	1100	Molybdenum		
	1105	Nickel		
	1140	Selenium		
	1150	Silver		
	1165	Thallium		
	1190	Zinc		
EPA 245.1 3			10036609	Mercury by Cold Vapor Atomic Absorption
	1095	Mercury		
EPA 300.0 2.1			10053200	Methods for the Determination of Inorganic Substances in



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
				Environmental Samples
	1575	Chloride		
	1730	Fluoride		
	1810	Nitrate as N		
	1820	Nitrate plus Nitrite as N		
	1840	Nitrite as N		
	1870	Orthophosphate as P		
	2000	Sulfate		
EPA 353.2 2			10067604	Nitrate/Nitrite Nitrogen - Automated, Cadmium
	1820	Nitrate plus Nitrite as N		
EPA 524.2 4.1			10088809	Volatile Organic Compounds GC/MS Capillary Column
	5105	1,1,1,2-Tetrachloroethane		
	5160	1,1,1-Trichloroethane		
	5165	1,1,2-Trichloroethane		
	4630	1,1-Dichloroethane		
	4640	1,1-Dichloroethylene		
	4670	1,1-Dichloropropene		
	5150	1,2,3-Trichlorobenzene		
	5180	1,2,3-Trichloropropane		
	5155	1,2,4-Trichlorobenzene		
	5210	1,2,4-Trimethylbenzene		
	4610	1,2-Dichlorobenzene		
	4635	1,2-Dichloroethane (Ethylene dichloride)		
	4655	1,2-Dichloropropane		
	4615	1,3-Dichlorobenzene		
	4660	1,3-Dichloropropane		
	4620	1,4-Dichlorobenzene		
	4535	2-Chlorotoluene		
	4540	4-Chlorotoluene		
	4910	4-Isopropyltoluene (p-Cymene)		
	4375	Benzene		



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
	4385	Bromobenzene		
	4395	Bromodichloromethane		
	4400	Bromoform		
	4455	Carbon tetrachloride		
	4475	Chlorobenzene		
	4575	Chlorodibromomethane		
	4485	Chloroethane (Ethyl chloride)		
	4505	Chloroform		
	4645	cis-1,2-Dichloroethylene		
	4680	cis-1,3-Dichloropropene		
	4595	Dibromomethane (Methylene bromide)		
	4625	Dichlorodifluoromethane (Freon-12)		
	4765	Ethylbenzene		
	4835	Hexachlorobutadiene		
	5240	m+p-xylene		
	4950	Methyl bromide (Bromomethane)		
	4960	Methyl chloride (Chloromethane)		
	5000	Methyl tert-butyl ether (MTBE)		
	4975	Methylene chloride (Dichloromethane)		
	5005	Naphthalene		
	4435	n-Butylbenzene		
	5090	n-Propylbenzene		
	5250	o-Xylene		
	4440	sec-Butylbenzene		
	5100	Styrene		
	4445	tert-Butylbenzene		
	5140	Toluene		



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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		5205	Total trihalomethanes		
		4685	trans-1,3-Dichloropropylene		
		5170	Trichloroethene (Trichloroethylene)		
		5175	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)		
		5235	Vinyl chloride		
Legiolert - Legionella pneumophilia in Water				60008335	Determination of Legionella pneumophilia in Potable and Non-Potable Water
		2556	Legionella pneumophilia		
SM 2130 B 21st ED				20042608	Turbidity by Nephelometric Method
		2055	Turbidity		
SM 2320 B 21st ED				20045403	Alkalinity by Titration Method
		1505	Alkalinity as CaCO <sub>3</sub>		
SM 2340 B 21st ED				20046406	Hardness by calculation
		1750	Hardness		
SM 2510 B 21st ED				20048402	Conductivity by Probe
		1610	Conductivity		
SM 2540 C 21st ED				20050208	Total Dissolved Solids Dried at 180C
		1955	Residue-filterable (TDS)		
SM 4500-CI G 21st ED				20081407	Chlorine by DPD Colorimetric Method
		1945	Residual free chlorine		
		1940	Total residual chlorine		
SM 4500-CN <sup>-</sup> C 21st ED				20095403	Cyanide by Total Cyanide after Distillation
		1635	Cyanide		
SM 4500-CN <sup>-</sup> E 21st ED				20096202	Cyanide by Colorimetric Method
		1635	Cyanide		
SM 4500-H+ B 21st ED				20105004	pH Value by Electrometric Method .
		1900	pH		
SM 6251 B 21st ED				20149002	Haloacetic acid (HAAs) by Micro Liquid-Liquid Extraction Gas



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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
					Chromatographic Method
		9312	Bromoacetic acid		
		9315	Bromochloroacetic acid		
		9336	Chloroacetic acid		
		9357	Dibromoacetic acid		
		9360	Dichloroacetic acid		
		9414	Total haloacetic acids		
		9642	Trichloroacetic acid		
SM 9215 B (PCA) 21st ED				20181402	Heterotrophic Plate Count Pour Plate (plate count agar): Heterotrophic Bacteria
		2555	Heterotrophic plate count		
SM 9223 B (Colilert® Quanti-Tray®) 21st ED				20211409	Chromogenic/Fluorogenic Quantitative (Colilert®): Total Coliform and E. coli
		2525	Escherichia coli		
		2500	Total coliforms		
SM 9223 B (Colilert®) 21st ED				20212402	Chromogenic/Fluorogenic Qualitative (Colilert®): Total Coliform and E. coli
		2525	Escherichia coli		
		2500	Total coliforms		
SM 9223 B (Colilert®-18 Quanti-Tray®) 21st ED				20213405	Chromogenic/Fluorogenic Quantitative (Colilert®-18): Total Coliform and E. coli
		2525	Escherichia coli		
		2500	Total coliforms		
SM 9223 B (Colilert®-18) 21st ED				20214408	Chromogenic/Fluorogenic Qualitative (Colilert®-18): Total Coliform and E. coli
		2525	Escherichia coli		
		2500	Total coliforms		
SM 9223 B (Colisure®) 21st ED				20231601	Chromogenic/Fluorogenic Qualitative (Colisure®): Total Coliform and E. coli
		2525	Escherichia coli		
		2500	Total coliforms		

### Non-Potable Water

EPA 1664A (HEM)

10127807 N-Hexane Extractable Material (Oil and Grease) by Extraction





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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1803	n-Hexane Extractable Material (O&G)		and Gravimetry
EPA 1664A (SGT-HEM)		10261606	Silica Gen Treated N-Hexane Extractable Material (Oil and Grease)		
		1803	n-Hexane Extractable Material (O&G)		
EPA 180.1.2		10011800	Turbidity		Turbidity - Nephelometric
		2055	Turbidity		
EPA 200.7 4.4		10013806	ICP - metals		
		1000	Aluminum		
		1010	Arsenic		
		1015	Barium		
		1025	Boron		
		1030	Cadmium		
		1035	Calcium		
		1040	Chromium		
		1055	Copper		
		1070	Iron		
		1075	Lead		
		1085	Magnesium		
		1090	Manganese		
		1105	Nickel		
		1125	Potassium		
		1150	Silver		
		1155	Sodium		
		1165	Thallium		
		1190	Zinc		
EPA 200.8 5.4		10014605	Metals by ICP-MS		
		1005	Antimony		
		1010	Arsenic		
		1015	Barium		
		1020	Beryllium		



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
	1025	Boron		
	1030	Cadmium		
	1040	Chromium		
	1050	Cobalt		
	1055	Copper		
	1075	Lead		
	1090	Manganese		
	1100	Molybdenum		
	1105	Nickel		
	1140	Selenium		
	1165	Thallium		
	1175	Tin		
	1180	Titanium		
	1190	Zinc		
EPA 245.1 3			10036609	Mercury by Cold Vapor Atomic Absorption
	1095	Mercury		
EPA 300.0 2.1			10053200	Methods for the Determination of Inorganic Substances in Environmental Samples
	1575	Chloride		
	1730	Fluoride		
	1810	Nitrate as N		
	1820	Nitrate plus Nitrite as N		
	1840	Nitrite as N		
	1870	Orthophosphate as P		
	2000	Sulfate		
EPA 3010A			10133605	Acid Digestion of Aqueous samples and Extracts for Total Metals
	9822	Extraction/Preparation		
EPA 350.1			10063204	Ammonia Nitrogen - Colorimetric, Auto Phenate
	1515	Ammonia as N		
EPA 351.2 2			10065404	Total Kjeldahl Nitrogen - Block Digest, Phenate
	1795	Total Kjeldahl Nitrogen (TKN)		
EPA 353.2 2			10067604	Nitrate/Nitrite Nitrogen - Automated, Cadmium



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
	1820	Nitrate plus Nitrite as N		
EPA 365.1 2			10070005	Phosphorous - Colorimetric, Automated persulfate
	1910	Phosphorus, total		
EPA 410.4 2			10077404	Chemical Oxygen Demand - Colorimetric, Automated.
	1565	Chemical oxygen demand		
EPA 6010B			10155609	ICP - AES
	1000	Aluminum		
	1010	Arsenic		
	1015	Barium		
	1025	Boron		
	1030	Cadmium		
	1035	Calcium		
	1040	Chromium		
	1055	Copper		
	1070	Iron		
	1075	Lead		
	1085	Magnesium		
	1090	Manganese		
	1105	Nickel		
	1125	Potassium		
	1150	Silver		
	1155	Sodium		
	1190	Zinc		
EPA 6020			10156000	Inductively Coupled Plasma-Mass Spectrometry
	1005	Antimony		
	1010	Arsenic		
	1015	Barium		
	1020	Beryllium		
	1025	Boron		
	1030	Cadmium		
	1040	Chromium		
	1050	Cobalt		



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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1055	Copper		
		1075	Lead		
		1090	Manganese		
		1100	Molybdenum		
		1105	Nickel		
		1140	Selenium		
		1165	Thallium		
		1175	Tin		
		1180	Titanium		
		1190	Zinc		
EPA 7470A				10165807	Mercury in Liquid Waste by Cold Vapor Atomic Absorption
		1095	Mercury		
Legiolert - Legionella pneumophila in Water				60008335	Determination of Legionella pneumophila in Potable and Non-Potable Water
		2556	Legionella pneumophila		
SM 2130 B 21st ED				20042608	Turbidity by Nephelometric Method
		2055	Turbidity		
SM 2130 B-2011				20048220	Turbidity by Nephelometric Method
		2055	Turbidity		
SM 2320 B 21st ED				20045403	Alkalinity by Titration Method
		1505	Alkalinity as CaCO <sub>3</sub>		
SM 2320 B-2011 online				20045618	Alkalinity as CaCO <sub>3</sub>
		1505	Alkalinity as CaCO <sub>3</sub>		
SM 2340 B 21st ED				20046406	Hardness by calculation
		1750	Hardness		
SM 2340 B-2011 online				20046611	Hardness
		1750	Hardness		
SM 2510 B 21st ED				20048402	Conductivity by Probe
		1610	Conductivity		
SM 2510 B-2011				20048617	Conductivity by Probe



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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1610	Conductivity		
	SM 2540 B 21st ED			20049201	Total Solids Dried at 103 - 105C
		1950	Residue-total		
	SM 2540 B-2015			20049438	Solids - Total Solids Dried at 103 - 105 deg C
		1950	Residue-total		
	SM 2540 C 21st ED			20050208	Total Dissolved Solids Dried at 180C
		1955	Residue-filterable (TDS)		
	SM 2540 C-2015			20050435	Solids - Total Dissolved Solids Dried at 180 deg C
		1955	Residue-filterable (TDS)		
	SM 2540 D 21st ED			20051007	Total Suspended Solids Dried at 103 - 105C
		1960	Residue-nonfilterable (TSS)		
	SM 2540 D-2015			20051223	Solids - Total Suspended Solids Dried at 103 - 105 deg C
		1960	Residue-nonfilterable (TSS)		
	SM 4500-CI G 21st ED			20081407	Chlorine by DPD Colorimetric Method
		1940	Total residual chlorine		
	SM 4500-CI G-2011 22nd ED			20081623	Chlorine (Residual) by DPD Colorimetric Method
		1940	Total residual chlorine		
	SM 4500-CN- B-2016			20095276	Cyanide - Preliminary Treatment of Samples
		1478	Preliminary Treatment of Cyanide Samples		
	SM 4500-CN- E-2016			20096439	Cyanide - Colorimetric Method
		1645	Total cyanide		
	SM 4500-CN <sup>-</sup> C 21st ED			20095403	Cyanide by Total Cyanide after Distillation
		1635	Cyanide		
	SM 4500-CN <sup>-</sup> E 21st ED			20096202	Cyanide by Colorimetric Method
		1635	Cyanide		
	SM 4500-H+ B 21st ED			20105004	pH Value by Electrometric Method .
		1900	pH		
	SM 4500-H+ B-2011			20105220	pH - Electrometric Measurement



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Matrix	Reference	Analyte Code	Analyte	Method Code	Description
		1900	pH		
	SM 5210 B 21st ED			20135006	Biochemical Oxygen Demand, 5-Day (BOD5)
		1530	Biochemical oxygen demand		
		1555	Carbonaceous BOD, CBOD		
	SM 5210 B-2016			20135039	Biochemical Oxygen Demand (BOD) - 5-Day BOD Test
		1530	Biochemical oxygen demand		
		1555	Carbonaceous BOD, CBOD		
	SM 9222 D (m-FC) 21st ED			20209807	Membrane Filtration Quantitative (m-FC): Fecal Coliform
		2530	Fecal coliforms		
	SM 9223 B (Colilert® Quanti-Tray®) 21st ED			20211409	Chromogenic/Fluorogenic Quantitative (Colilert®): Total Coliform and E. coli
		2525	Escherichia coli		
		2500	Total coliforms		
	SM 9223 B (Colilert®-18 Quanti-Tray®) 21st ED			20213405	Chromogenic/Fluorogenic Quantitative (Colilert®-18): Total Coliform and E. coli
		2525	Escherichia coli		
		2500	Total coliforms		

### Solids

AOAC 2007.01 & EN 15662: LC-MS/MS

805 Pesticides by LC-MS-MS

- 7366 Abamectin
- 7000 Acephate
- 7002 Acequinocyl
- 7003 Acetamiprid
- 5445 Aflatoxin B1
- 5450 Aflatoxin B2
- 5455 Aflatoxin G1
- 5460 Aflatoxin G2



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
	7010	Aldicarb (Temik)		
	7076	Azoxystrobin		
	7116	Bifenazate		
	7117	Bifenthrin		
	7128	Boscalid		
	7195	Carbaryl (Sevin)		
	7205	Carbofuran (Furaden)		
	7247	Chlorantraniliprole		
	7329	Chlorfenapyr		
	7300	Chlorpyrifos		
	7966	Clofentezine		
	7345	Cyfluthrin		
	7346	Cypermethrin		
	7348	Daminozide		
	7410	Diazinon		
	8610	Dichlorvos (DDVP, Dichlorvos)		
	7475	Dimethoate		
	7570	Ethoprop		
	7573	Etofenprox		
	7574	Etoxazole		
	7597	Fenoxycarb		
	7598	Fenpyroximate		
	7623	Fipronil		
	7628	Flonicamid		
	7629	Fludioxonil		
	7707	Hexythiazox		
	7718	Imazalil		
	7702	Imidacloprid		
	7747	Kresoxim-methyl		
	7770	Malathion		
	7790	Metalaxyl		



# OREGON

## Environmental Laboratory Accreditation Program

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Columbia Laboratories Inc.

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**ORELAP ID:** OR100028

**EPA CODE:** OR00011

**Certificate:** OR100028 - 027

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Matrix Reference	Analyte Code	Analyte	Method Code	Description
	7800	Methiocarb (Mesurol)		
	7805	Methomyl (Lannate)		
	7825	Methyl parathion (Parathion, methyl)		
	7860	MGK-264		
	7893	Myclobutanil		
	7905	Naled		
	5473	Ochratoxin A		
	7940	Oxamyl		
	7947	Paclobutrazol		
	7975	Permethrin (total)		
	8000	Phosmet (Imidan)		
	9550	Piperonyl butoxide		
	8022	Prallethrin		
	8077	Propiconazole		
	8080	Propoxur (Baygon)		
	8247	Pyrethrins (total)		
	8097	Pyridaben		
	8136	Spinosad		
	8137	Spiromesifen		
	8139	Spirotetramat		
	8141	Spiroxamine		
	8174	Tebuconazole		
	8214	Thiacloprid		
	8216	Thiamethoxam		
	8287	Trifloxystrobin		
AOAC 2013.06			50003355	Determination of Arsenic, Cadmium, Mercury, and Lead in Foods by Pressure Digestion and Inductively Coupled Plasma/ Mass Spectrometry
	1010	Arsenic		
	1030	Cadmium		
	1075	Lead		
	1095	Mercury		





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Matrix Reference	Analyte Code	Analyte	Method Code	Description
EPA 5021A			10284205	Volatile Organic Compounds in Various Sample Matrices Using Equilibrium Headspace Analysis
	4735	1,4-Dioxane (1,4-Diethyleneoxide)		
	5866	2-Ethoxyethanol (cellosolve)		
	4315	Acetone		
	4320	Acetonitrile		
	4375	Benzene		
	4555	Cyclohexane		
	4725	Diethyl ether		
	4750	Ethanol		
	4755	Ethyl acetate		
	4785	Ethylene glycol		
	4795	Ethylene oxide		
	4890	Isopropyl acetate		
	4895	Isopropyl alcohol (2-Propanol, Isopropanol)		
	4900	Isopropylbenzene (Cumene)		
	4930	Methanol		
	4975	Methylene chloride (Dichloromethane)		
	5007	n-Butane		
	4825	n-Heptane		
	4855	n-Hexane		
	5028	n-Pentane		
	5029	n-Propane		
	9607	sec-Butyl Alcohol (2-Butanol)		
	5120	Tetrahydrofuran (THF)		
	5140	Toluene		
	5260	Xylene (total)		
GENE-UP IS1086 1			60020306	GENE-UP Aspergillus Molds in Cannabis
	5465	Aspergillus		



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Matrix Reference	Analyte Code	Analyte	Method Code	Description
J AOAC 2015 V98-6			818	Cannabinoids in Cannabis by HPLC-UV
	5415	Cannabidiol (CBD)		
	5420	Cannabidolic acid (CBDA)		
	7386	delta-8 Tetrahydrocannabinol (d8 THC)		
	5405	delta-9 Tetrahydrocannabinol (d9 THC)		
	5410	delta-9 Tetrahydrocannabinolic acid (d9 THCA)		
ORELAP-SOP-002 4.3			90019866	Protocol for Collecting Samples of Cannabinoid Concentrates, Extracts, Products, and Industrial Hemp-derived Vapor Items
	1405	Incremental Sampling		
	1441	Sampling		

