



Oregon

Environmental Laboratory Accreditation Program



Department of Agriculture, Laboratory Division
Department of Environmental Quality, Laboratory Program
Oregon Health Authority, Public Health Division

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Revised December 5, 2022

Proficiency Testing (PT) in Oregon Cannabis Laboratories

According to OAR 333-064-0120, “A laboratory accredited to test marijuana items must at all times have two successful PT studies out of the most recent three attempts for each field of accreditation for which the laboratory holds accreditation.” In addition, “A PT study for a particular field of accreditation that has an opening date less than seven days from the closing date of the previous PT study for that same field of accreditation” may not be counted toward the laboratory’s PT history of the most recent three attempts and “The closing dates of a PT study for a particular field of accreditation can be no more than seven months apart”, else the laboratory is charged one missed/failed PT sample.

Cannabis plant material (usable marijuana) falls under the Biological Tissue (BT) matrix for ORELAP.

Concentrates, extracts, and products fall under the Solid (S) matrix for ORELAP.

Unless otherwise stated, the laboratory must analyze PT samples for each field of accreditation, meaning each combination of matrix, method/technology, and analyte.

Unless otherwise stated, for potency and pesticides in usable marijuana, the laboratory must use PT samples made from a usable marijuana matrix.

The laboratory must select a PT vendor accredited by The NELAC Institute (TNI): <http://nelac-institute.org/content/NEPTP/ptproviders.php>.

ORELAP currently accredits laboratories for the following fields of accreditation for cannabis testing.

Potency			
Analyte Code	Analyte Name	BT	S
5405	Delta-9 Tetrahydrocannabinol (d9 THC)	X	X
7386	Delta-8 Tetrahydrocannabinol (d8 THC)	X	X
5410	Delta-9 Tetrahydrocannabinolic acid (d9 THCA)	X	X
5415	Cannabidiol (CBD)	X	X
5420	Cannabidolic acid (CBDA)	X	X
Water Activity/Moisture			
Analyte Code	Analyte Name	BT	S
8068	Water activity	X	
3850	Moisture content	X	
Pesticides			
Analyte Code	Analyte Name	BT	S
7366	Abamectin	X	X
7000	Acephate	X	X
7002	Acequinocyl	X	X
7003	Acetamiprid	X	X
7010	Aldicarb	X	X
7076	Azoxystrobin	X	X
7116	Bifenazate	X	X
7117	Bifenthrin	X	X
7128	Boscalid	X	X
7195	Carbaryl	X	X
7205	Carbofuran	X	X
7247	Chlorantraniliprole	X	X
7329	Chlorfenapyr	X	X
7300	Chlorpyrifos	X	X
7966	Clofentezine	X	X
7345	Cyfluthrin	X	X
7346	Cypermethrin	X	X
7348	Daminozide	X	X
8610	DDVP (Dichlorvos)	X	X
7410	Diazinon	X	X
7475	Dimethoate	X	X

Pesticides Cont'd			
Analyte Code	Analyte Name	BT	S
7570	Ethoprop	X	X
7573	Etofenprox	X	X
7574	Etoxazole	X	X
7597	Fenoxycarb	X	X
7598	Fenpyroximate	X	X
7623	Fipronil	X	X
7628	Flonicamid	X	X
7629	Fludioxonil	X	X
7707	Hexythiazox	X	X
7718	Imazalil	X	X
7702	Imidacloprid	X	X
7747	Kresoxim-methyl	X	X
7770	Malathion	X	X
7790	Metalaxyl	X	X
7800	Methiocarb	X	X
7805	Methomyl	X	X
7825	Methyl parathion	X	X
7860	MGK-264	X	X
7893	Myclobutanil	X	X
7905	Naled	X	X
7940	Oxamyl	X	X
7947	Paclobutrazol	X	X
7975	Permethrins	X	X
8000	Phosmet	X	X
9550	Piperonyl butoxide	X	X
8022	Prallethrin	X	X
8077	Propiconazole	X	X
8080	Propoxur	X	X
8247	Pyrethrins	X	X
8097	Pyridaben	X	X
8136	Spinosad	X	X
8137	Spiromesifen	X	X
8139	Spirotetramat	X	X
8141	Spiroxamine	X	X
8174	Tebuconazole	X	X

Pesticides Cont'd			
Analyte Code	Analyte Name	BT	S
8214	Thiacloprid	X	X
8216	Thiamethoxam	X	X
8287	Trifloxystrobin	X	X
Heavy Metals			
Analyte Code	Analyte Name	BT	S
1010	Arsenic	X	X
1030	Cadmium	X	X
1075	Lead	X	X
1095	Mercury	X	X
Microbiology			
Analyte Code	Analyte Name	BT	S
5465	<i>Aspergillus</i>	X	X
2572	Shiga-toxin producing <i>Escherichia coli</i> (STEC)	X	X
2570	<i>Salmonella</i>	X	X
Mycotoxins			
Analyte Code	Analyte Name	BT	S
5445	Aflatoxin B1	X	X
5450	Aflatoxin B2	X	X
5455	Aflatoxin G1	X	X
5460	Aflatoxin G2	X	X
5412	Total Aflatoxins	X	X
5473	Ochratoxin A	X	X
Residual Solvents			
Analyte Code	Analyte Name	BT	S
5250	1,2-Dimethylbenzene (o-Xylene)		X
5245	1,3-Dimethylbenzene (m-Xylene)		X
5255	1,4-Dimethylbenzene (p-Xylene)		X
5240	m+p-Xylene		X
4735	1,4-Dioxane		X
9607	2-Butanol (Sec-butyl alcohol)		X
5866	2-Ethoxyethanol (Cellosolve)		X
4941	2-Methylpentane (Isohexane)		X
4895	2-Propanol (IPA)		X
4666	2,2-Dimethylbutane		X
4669	2,3-Dimethylbutane		X

Residual Solvents Cont'd			
Analyte Code	Analyte Name	BT	S
4534	3-Methylpentane		X
4315	Acetone		X
4320	Acetonitrile		X
4375	Benzene		X
5007	n-Butane		X
4900	Cumene (Isopropyl benzene)		X
4555	Cyclohexane		X
4975	Dichloromethane (Methylene chloride)		X
4755	Ethyl acetate		X
4725	Ethyl ether (Diethyl ether)		X
4765	Ethylbenzene		X
4785	Ethylene glycol		X
4795	Ethylene oxide		X
4825	Heptane		X
4855	n-Hexane		X
4942	Isobutane (2-Methyl propane)		X
4938	Isopentane (2-Methyl butane)		X
4890	Isopropyl acetate		X
4930	Methanol		X
9511	Neopentane		X
5028	n-Pentane		X
5029	n-Propane		X
5120	Tetrahydrofuran (THF)		X
5140	Toluene		X
5143	Total Butanes		X
9469	Total Hexanes		X
5148	Total Pentanes		X
5260	Total Xylenes		X