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Analytical Standards for Medicinal and Recreational Cannabis Testing

While the legalization of cannabis, for both medicinal and recreational purposes, has been gaining speed, legislation and regulation has not necessarily kept pace. Even so, out of a drive for self-regulation and significant consumer safety concerns, many producers and manufacturers are turning to testing labs in order to ensure that their products are of high quality and free of chemical contaminants. SPEX CertiPrep offers ISO 17034 Certified Reference Materials (CRMs) for all of the common contaminants such as pesticide residues, residual solvents and heavy metals, as well as qualitative analysis CRMs such as terpenes. As the industry demands change and regulations are put into place, we continually update our product offerings.

For additional product information, please visit www.spexcertiprep.com.

Designed for Methods: State Specific Pesticide Regulations

• OAR 333-008-11 • HB 3460 • AOAC 2007.01 • EN 15662

Pesticide Residues

Description	Concentration	Volume	Matrix	Part #
Organochlorine Pesticides Mix A, 18 compounds	200 µg/mL	1 mL	Acetone	5252-PA
Organochlorine Pesticides Mix B, 15 compounds	200 µg/mL	1 mL	Acetone	5252-PB
Nitrogen-Phosphorus Pesticides Mix D, 9 compounds	200 µg/mL	1 mL	Acetone	5252-PD
Nitrogen-Phosphorus Pesticides Mix E, 3 compounds	200 µg/mL	1 mL	Acetone	5252-E

Terpenes

Components	CAS #	Concentration	Volume	Matrix	Part #
Borneol	507-70-0	1,000 µg/mL	1 mL	Methanol-P&T	S-4570
Eucalyptol	470-82-6	1,000 µg/mL	1 mL	Methanol	S-4352
(R)-(+)-Limonene	5989-27-5	1,000 µg/mL	1 mL	Methanol-P&T	S-4021
Linalool	78-70-6	1,000 µg/mL	1 mL	Methanol	S-5133
alpha-Pinene	80-56-8	1,000 µg/mL	1 mL	Methanol-P&T	S-4172
beta-Pinene	127-91-3	1,000 µg/mL	1 mL	Methanol-P&T	S-3142

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Residual Solvents

Components	CAS #	Concentration	Volume	Matrix	Part #
Residual Solvent Mix, 24 compounds	Multiple	1,000 µg/mL	1 mL	Dimethyl sulfoxide	USP-RS-C3A
Acetone	67-64-1	1,000 µg/mL	1 mL	Methanol-P&T	S-140
n-Butane	106-97-8	1,000 µg/mL	1 mL	Methanol-P&T	S-605
Ethane	74-84-0	1,000 µg/mL	1 mL	Methanol-P&T	S-1880
Ethanol	64-17-5	1,000 µg/mL	1 mL	Methanol-P&T	S-1885
n-Hexane	110-54-3	1,000 µg/mL	1 mL	Methanol-P&T	S-2190
Methane	74-82-8	1,000 µg/mL	1 mL	Methanol-P&T	S-2379
2-Methylbutane	78-78-4	1,000 µg/mL	1 mL	Methanol-P&T	S-2462
2-Methylpropane	75-28-5	1,000 µg/mL	1 mL	Methanol-P&T	S-2555
n-Pentane	109-66-0	1,000 µg/mL	1 mL	Methanol-P&T	S-2975
Propane	74-98-6	1,000 µg/mL	1 mL	Methanol-P&T	S-3145
2-Propanol	67-63-0	1,000 µg/mL	1 mL	Methanol-P&T	S-3165

CAN-TERP Mix 1 In Methanol

Components	CAS #	Components	CAS #	Components	CAS #
(-)-alpha-Bisabolol	23089-26-1	Eucalyptol	470-82-6	Linalool	78-70-6
Camphene	79-92-5	Farnesene (mix of Isomers)	502-61-4	p-Mentha-1,5-diene	99-83-2
Camphor	76-22-2	(+)-Fenchone	4695-62-9	beta-Myrcene	123-35-3
(1S)-(+)-3-Carene	498-15-7	Geranyl acetate	105-87-3	Nerol	106-25-2
(-)-Caryophyllene oxide	1139-30-6	Hexahydrothymol	89-78-1	cis-Nerolidol	3790-78-1
trans-Caryophyllene	87-44-5	Isoborneol	124-76-5	Ocimene (mix of isomers)	13877-91-3
(+)-Cedrol	77-53-2	(-)-Isopulegol	89-79-2	Valencene	4630-07-3
Concentration	Volume	Part #	Concentration	Volume	Part #
100 µg/mL	1 mL	CAN-TERP-MIX1	1,000 µg/mL	1 mL	CAN-TERP-MIX1H

CAN-TERP Mix 2 In Methanol

Components	CAS #	Components	CAS #	Components	CAS #
(+)-Borneol	464-43-7	Geraniol	106-24-1	(+)-Pulegone	89-82-7
(-)-Borneol	464-45-9	Guaiol	489-86-1	alpha-Terpinene	99-86-5
(1R)-(+)-Camphor	464-49-3	alpha-Humulene	6753-98-6	gamma-Terpinene	99-85-4
(1S)-(-)-Camphor	464-48-2	(R)-(+)-Limonene	5989-27-5	Terpinolene	586-62-9
alpha-Cedrene	469-61-4	trans-Nerolidol	40716-66-3	Terpineol (mix of isomers)	8000-41-7
L(-)-Fenchone	7787-20-4	a-Pinene	80-56-8	Sabinene	3387-41-5
(1R)-endo-(+)-Fenchyl alcohol	2217-02-9	beta-Pinene	127-91-3	Sabinene hydrate	546-79-2
Concentration	Volume	Part #	Concentration	Volume	Part #
100 µg/mL	1 mL	CAN-TERP-MIX2	1,000 µg/mL	1 mL	CAN-TERP-MIX2H

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CAN-TERP Kit in Methanol

Kit Contains

CAN-TERP-MIX1

CAN-TERP-MIX2

Concentration	Volume	Part #
100 µg/mL	1 mL	CAN-TERP-KIT

CAN-TERP Kit (High Level) in Methanol

Kit Contains

CAN-TERP-MIX1H

CAN-TERP-MIX2H

Concentration	Volume	Part #
1,000 µg/mL	1 mL	CAN-TERP-KIT-H

DEA Controlled Substances

Components	CAS #	Concentration	Volume	Matrix	Part #
Cannabidiol (CBD)	13956-29-1	1,000 µg/mL	1 mL	Methanol	S-10241
Cannabinol (CBN)	521-35-7	1,000 µg/mL	1 mL	Methanol	S-10242
Cannabidivarin (CBDV)	24274-48-4	1,000 µg/mL	1 mL	Methanol	S-10245
Cannabigerol (CBG)	2808-33-5	1,000 µg/mL	1 mL	Methanol	S-10246
Cannabigerolic acid (CBGA)	25555-57-1	1,000 µg/mL	1 mL	Acetonitrile	S-10247
Cannabichromene (CBC)	20675-51-8	1,000 µg/mL	1 mL	Methanol	S-10248
Cannabidolic acid (CBDA)	1244-58-2	1,000 µg/mL	1 mL	Acetonitrile	S-10249
(-)-delta9-THC	1972-08-3	1,000 µg/mL	1 mL	Methanol	S-10260
(-)-delta8-THC	5957-75-5	1,000 µg/mL	1 mL	Methanol	S-10261
Cannabidivarinic acid (CBDVA)	31932-13-5	1,000 µg/mL	1 mL	Acetonitrile	S-11055
Tetrahydrocannabinolic acid (THCA)	23978-85-0	1,000 µg/mL	1 mL	Acetonitrile	S-11056
Tetrahydrocannabivarin (THCV)	31262-37-0	1,000 µg/mL	1 mL	Methanol	S-11057
Tetrahydrocannabivarinic acid (THCVA)	28172-17-0	1,000 µg/mL	1 mL	Acetonitrile	S-11058
Cannabichromenic acid (CBCA)	20408-52-0	1,000 µg/mL	1 mL	Acetonitrile	S-11059

Heavy Metals

Components	Concentration	Volume	Matrix	Part #
Heavy Metals Mix, 4 Metals	Multiple	125 mL	5% HNO ₃	USP-TXM2
Arsenic	1,000 µg/mL	125 mL	2% HNO ₃	PLAS2-2Y
Cadmium	1,000 µg/mL	125 mL	2% HNO ₃	PLCD2-2Y
Chromium	1,000 µg/mL	125 mL	2% HNO ₃	PLCR2-2Y
Lead	1,000 µg/mL	125 mL	2% HNO ₃	PLPB2-2Y
Mercury	1,000 µg/mL	125 mL	10% HNO ₃	PLHG4-2Y
Nickel	1,000 µg/mL	125 mL	2% HNO ₃	PLNI2-2Y
Silver	1,000 µg/mL	125 mL	2% HNO ₃	PLAG2-2Y
Thallium	1,000 µg/mL	125 mL	2% HNO ₃	PLTL2-2Y

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OdorEroder®

OdorEroder® effectively neutralizes a wide range of offensive chemical odors and fumes in the lab, everything from Aldehydes to Xylene. These non-toxic, environmentally safe purple beads are placed where airborne odor-causing chemicals are most likely to pass near them. Compounds in the beads trap and chemically transform these odor-causing chemicals into harmless, scentless compounds that remain trapped within the beads. The efficacy of the beads is easily observed as they turn from purple to brown to facilitate the chemical reaction required to deodorize your workspace. When a majority of the beads have turned brown, it is time to replace the OdorEroder®. Depending on levels of exposure, the OdorEroder® lasts up to 3 months.

OdorEroder® is effective in the following areas:

Hoods • Waste Disposal Areas • Lab Benches • Chemical Storage Cabinets • Glove Boxes • Lab Refrigerators • Other Odor-Causing Areas within a Lab

Description	Part #
OdorEroder® - 100 g	ODER-100G
OdorEroder® - 250 g	ODER-250G

CAN'T FIND THE STANDARDS YOU ARE LOOKING FOR?

SPEX CertiPrep can make custom standards to meet your exact needs. Contact us for more information.

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