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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/cannabis.

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 C, 33 compounds	200 µg/mL	1 mL	Methylene Chloride	5252-PC			
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		

CERTIFIED REFERENCE MATERIALS

SPEX CertiPrep is the industry leader for over 60 years in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research. Accredited by A2LA to ISO/IEC 17025:2005 & ISO 17034:2016. Certified by DQS to ISO 9001:2015.

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Cannabis (cont'd)

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 #	Compone	Components		CAS # Components		CAS #
(-)-alpha-Bisabo	lol	23089-26-1	Eucalypt	ol	470-82-6	Linalool		78-70-6
Camphene		79-92-5	Farnesene (mix o	f Isomers)	502-61-4	p-Mentha-1,5-diene	e	99-83-2
Camphor		76-22-2	(+)-Fenchone		4695-62-9	beta-Myrcene		123-35-3
(1S)-(+)-3-Carer	ie	498-15-7	98-15-7 Geranyl acetate		105-87-3	Nerol		106-25-2
(-)-Caryophyllene d	oxide	1139-30-6	Hexahydroth	ymol	89-78-1	cis-Nerolidol		3790-78-1
trans-Caryophylle	ene	87-44-5	Isoborne	ol	124-76-5	Ocimene (mix of isom	ers)	13877-91-3
(+)-Cedrol		77-53-2	(-)-Isopule	(-)-Isopulegol		Valencene		4630-07-3
Concentration	Volu	ıme	Part #		Concentration	Volume		Part #
100 µg/mL	1 n	nL	CAN-TERP-MIX1		1,000 μg/mL	1 mL	CAN-	TERP-MIX1H

CAN-TERP Mix 2 In Methanol									
Components	5	CAS #	CAS # Components			CAS #	CAS # Components		CAS #
(+)-Borneol		464-43-7	Geranio	I		106-24-1	(+)-Pulegone		89-82-7
(-)-Borneol		464-45-9	Guaiol			489-86-1	alpha-Terpinene		99-86-5
(1R)-(+)-Camph	or	464-49-3	alpha-Humu	Ilene		6753-98-6	gamma-Terpinene		99-85-4
(1S)-(-)-Camph	or	464-48-2	464-48-2 (R)-(+)-Limo			5989-27-5	Terpinolene		586-62-9
alpha-Cedren	e	469-61-4	trans-Nerol	idol		40716-66-3	Terpineol (mix of isom	ers)	8000-41-7
L(-)-Fenchone	2	7787-20-4	a-Pinene	2		80-56-8	Sabinene		3387-41-5
(1R)-endo-(+)-Fenchy	l alcohol	2217-02-9	beta-Pinene			127-91-3	Sabinene hydrate		546-79-2
Concentration	Volu	ime	Part #		Co	oncentration	Volume		Part #
100 μg/mL	1 r	nL	CAN-TERP-MIX2		1	,000 μg/mL	1 mL	CAN-	TERP-MIX2H

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Cannabis (cont'd)

CAN-TERP Kit in Methanol						
Kit Contains						
CAN-TERP-MIX1				CAN-TERP-MIX2		
	Concentration Volu		ıme	Part #		
	100 μg/mL	00 μg/mL 1 n		CAN-TERP-KIT		

CAN-TERP Kit (High Level) in Methanol							
Kit Contains							
CAN-TERP-	CAN-TERP-MIX1H			CAN-TERP-MIX2H			
	Concentration Volu		ime	Part #			
	1,000 μg/mL	1 n	nL	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		
Tetrahydrocannabinolic acid (THCA)	23978-85-0	1,000 µg/mL	1 mL	LC/MS Grade Methanol	LCS-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		





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

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