



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

KEYSTONE STATE TESTING, LLC
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CHEMICAL

Valid To: March 31, 2024

Certificate Number: 4405.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on cannabis flower, plant and processed material:

<u>Test/Technology(ies)</u>	<u>Test Method(s)</u>
Accelerated Stability	P185
Cannabinoid Potency and Profile by HPLC Total THC, Total CBD THCa-a, d9-THC, d8-THC, THCv, CBDa, CBD, CBDV, CBN, CBGa, CBG, CBC, CBN, CBCa, CBDVa, THCva, CBL, CBLa	P100
Flavonoid Profile by LC-MS/MS Luteolin, Epicatechin, Quercetin 3-Glucoside, Kaempferol, Trans-Caffeic Acid, Apigenin 7-Glucoside, Baicalin, Vitexin, Chlorogenic Acid, Luteolin 7-O-Glucoside, Isovitexin, Orientin, Chrysoeriol, (+) Catechin, Apigenin, Ferulic Acid, Naringenin, Chrysin, Quercetin, trans-p-Coumaric Acid, Rutin, Catechol, Epigallocatechin, Myricetin, Wogonin, B-Sitosterol, Fisetin, Silymarin, Cannflavin A, Cannflavin B	P190
Heavy Metal Analysis by ICP-MS Hg, Pb, Cd, As, Tl, Se, Sb, Ni, Zn, Cu, Cr, Ba, Ag, U, Fe, Ca, Ti, K, Mo, V, Co, Mg, Al, Na, Be, Bi, P, Sr, Mn, Sn, B	P140
Heavy Metal Vapor Analysis by ICP-MS Hg, Pb, Cd, As, Se, Sb, Ni, Zn, Cu, Cr, Ba, Ag	P145
Moisture Content by Moisture Content Analyzer	P160
Mycotoxins by LC-MS/MS Aflatoxin B1, B2, G1, G2, Ochratoxin A	P125
Pesticide Analysis by GC-MS/MS and LC-MS/MS Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Captan, Carbaryl, Carbofuran, Chlorantraniliprole, Chlordane, Chlorfenapyr, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, DDVP, Diazinon, Dichlorvos, Dimethoate, Dimethomorph, Ethoprophos, Etofenprox, Etoxazole, Fenhexamid, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Kresoxim-methyl, Malathion, Metalaxyl, Methiocarb, Methomyl, Methyl parathion, Mevinphos, Mkg-264, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Pentachloronitrobenzene, Permethrins, Phosmet, Piperonyl	P150

Butoxide, Prallethrin, Propiconazole, Propoxur, Pyridaben, Pyrethrins, Spinetoram, Spinosad, Spirotetramat, Spiroxamine, Spiromesifen, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin	
Residual Solvents by GC-MS-HS 1,4-Dioxane, 1,1-Dichloroethane, 1,2-Dichloroethane, 2-Butanol, 2-Ethoxyethanol, 2-Propanol (IPA), Acetone, Acetonitrile, Benzene, Butanes, (+/-)-2-Butanol, Isobutane, Chloroform, Cumene, Cyclohexane, Dichloromethane, Diethyl ether, 2,2-Dimethylbutane, 2,3-Dimethylbutane, Ethanol, Ethyl acetate, Ethylbenzene, Ethyl ether, Ethylene glycol, Ethylene Oxide, Heptane, Hexanes, Isopropyl acetate, Methanol, 2-methylbutane, Methylene chloride, 2-Methylpentane, 3-Methylpentane, Neopentane, Pentanes, Propane, Tetrahydrofuran, Toluene, Trichloroethene, Xylenes	P170
Sampling	P500
Terpene Profile by GC-MS-HS (-)-Alpha-Bisabolol, (-)-Borneol, (-)-Caryophyllene Oxide, (-)-Isopulegol, (+)-Borneol, (+)-Cedrol, (+)-Fenchone, (+)-Pulegone, (1R)-(+)-Camphor, (1R)-Endo-(+)-Fenchyl Alcohol, (1S)-(-)-Camphor, (1S)-(+)-3-Carene, (R)-(+)-Limonene, alpha-Cedrene, alpha-Humulene, alpha-Pinene, alpha-Terpinene, beta-Myrcene, beta-Pinene, Camphene, Camphor, cis-Nerolidol, Eucalyptol, Farnesene (mix of isomers), gamma-Terpinene, Geraniol, Geranyl Acetate, Guaiol, Hexahydrothymol, Isoborneol, L(-)-Fenchone, Linalool, Nerol, Ocimene (Mixture of Isomers), p-Mentha-1,5-diene, Sabinene, Sabinene Hydrate, Terpeneol (mixture of Isomers), Terpinolene, trans-Caryophyllene, trans-Nerolidol, Valencene	P210
Water Activity by Water Activity Meter	P160

BIOLOGICAL

<u>Test/Technology</u>	<u>Method</u>
<i>Aspergillus</i> by Gene-Up	P120
Bile Tolerant Gram-Negative Bacteria by Petri Plate and/or Tempo	
<i>Escherichia Coli</i> by Petri Plate and/or Gene-Up/Tempo	
Plant Gender by Gene-Up	
<i>Salmonella</i> by Petri Plate and/or Gene-Up	
<i>Staphylococcus aureus</i> by Petri Plate and/or Gene-Up/Tempo	
Total Aerobic Microbial Count by Petri Plate and/or Tempo	
Total Yeast & Mold Count by Petri Plate and/or Tempo	





Accredited Laboratory

A2LA has accredited

KEYSTONE STATE TESTING, LLC

Harrisburg, PA

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

Presented this 29th day of March 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4405.01
Valid to March 31, 2024



For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.