



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NORTH COAST ANALYTICAL LABORATORIES LLC
10100 Wellman Road
Streetsboro, OH 44241
Nick Szabo Phone: 440-591-3895

CHEMICAL

Valid To: September 30, 2021

Certificate Number: 4849.02

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with A2LA's R243 - Specific Requirements - Cannabis Testing Laboratory Accreditation Program, containing the ASA (Americans for Safe Access) Laboratory Requirements which is derived from the 2016 *American Herbal Products Association (AHPA) Recommendations for Regulators – Cannabis Operations*)¹, accreditation is granted to this laboratory to perform the following tests on cannabis, hemp, aqueous and solid matrix:

<u>Test/Technology</u>	<u>Test Method</u>
Acid Digestion of Aqueous Samples for Total Metals Analysis	EPA Method 3010 A
Chloride by Titration	SM 4500 Cl C
Heavy Metals (ICP/MS) As, Cd, Pb, Hg, Cr	SOP-103
Metals by ICP – Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Fe, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, S, Tl, Sn, Ti, V, Zn	EPA Method 6010 D
Microwave Assisted Acid Digestion of Solid Samples for Metals Analysis	EPA Method 3051A
Moisture Content (Drying/Weighing by Moisture Analyzer)	SOP-107
Mycotoxins (LC/MS/MS) Aflatoxin B1, B2, G1, G2, and Ochratoxin	SOP-102
Pesticides (LC/MS/MS) Abamectin, Aldicarb, Bifenazate, Cyfluthrin, Daminozide, Diazonin, Dichlorvos, Dimethoate, Etoxazole, Flonicamid, Fludioxonil, Imidacloprid, Myclobutanil, Paclobutrazol, Piperonyl Butoxide, Pyrethrin I, Spinosyn A, Spinosyn D, Thiamethoxam, Trifloxystrobin	SOP-102
Phosphorus by Spectrophotometer	SM 4500 P E
Potency/Cannabinoid Content (HPLC) CBDV, CBDA, CBGA, CBG, CBD, CBN, Delta-9 THC, Delta-8 THC, CBC, Delta-9 THCA	SOP-104
Residual Solvents (GC/MS) Propane, Butane, Pentane, Ethanol, Ethyl Ether, 1,1 Dichloroethene, Acetone, Isopropyl Alcohol, Acetonitrile, Hexane, Ethyl Acetate, 1,1,1 Trichloroethane, Carbon, Tetrachloride, 1,2-Dichloroethane, Benzene, Heptane, Toluene, Total Xylenes (m, p), Total Xylenes (o)	SOP-105
Terpenes (GC/MS)	SOP-106

alpha-Pinene, Camphene, Sabinene, beta-Pinene, Myrcene, alpha-Phellandrene, delta-3-Carene, alpha-Terpinene, para-Cymene, Limonene, Eucalyptol, (E)-Ocimene, beta-Ocimene, gamma-Terpinene, Sabinene Hydrate, Terpinolene, Fenchone, Linalool, Fenchyl Alcohol, Isopulegol, Camphor, Isoborneol, Borneol, Menthol, alpha-Terpineol, Nerol, Pulegone, Geraniol, cis-Geranyl acetate, alpha-Cedrene, (E)-Caryophyllene, (E)-Farnesene, beta-Farnesene, alpha-Humulene, Valencene, (E)-Nerolidol, (Z)-Nerolidol, Caryophyllene Oxide, Guaiol, Cedrol, alpha-Bisabolol	
Total Nitrogen by Spectrophotometer	SM 4500 N C
Water Activity (Water Activity Meter Using Chilled Mirror Dewpoint Sensor)	SOP-108

BIOLOGICAL

<u>Test/Technology</u>	<u>Test Method</u>
Bile Tolerant Gram Negative (3M Petrifilm)	SOP-101
Detection of <i>Aspergillus</i> by PCR	SOP-120
Detection of <i>Salmonella</i> by PCR	SOP-119
<i>Escherichia coli</i> (3M Petrifilm)	SOP-101
Foreign Material (Microscopy)	SOP-100
<i>Salmonella</i> (3M Petrifilm)	SOP-101
Shiga Toxin-Producing <i>E. coli</i> (STEC) Screening by PCR	SOP-117
Total Coliform (3M Petrifilm)	SOP-101
Total Viable Aerobic Bacteria (3M Petrifilm)	SOP-101
Total Yeast and Mold (3M Petrifilm)	SOP-101
Yeast and Mold Quantification by PCR	SOP-118

¹Accreditation does not imply acceptance to the ASA PFC program. Please see the ASA website (<https://safeaccess2.org/patientfocusedcertification/companies/>) for a listing of ASA PFC certified laboratories.



Accredited Laboratory

A2LA has accredited

NORTH COAST ANALYTICAL LABORATORIES, LLC

Streetsboro, OH

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 laboratory also meets A2LA's R243 – Specific Requirements – Cannabis Testing Laboratory Accreditation Program, containing the Americans for Safe Access (ASA) Laboratory Requirements. 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 19th day of September 2019.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4849.02
Valid to September 30, 2021
Revised September 9, 2020

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