



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

HEARTLAND ASSAYS, LLC
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Ames, IA 50010
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CHEMICAL

Valid To: January 31, 2024

Certificate Number: 3969.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory’s compliance with the A2LA R243 – *Specific Requirements – Cannabis Testing Laboratory Accreditation Program*, containing the Americans for Safe Access (ASA) Laboratory Requirements which is derived from the 2016 AHPA (*American Herbal Products Association*) *Recommendations for Regulators – Cannabis Operations*)¹, accreditation is granted to this laboratory to perform the following tests on human and animal specimens, plasma, serum, urine, food, mushrooms, supplements, extracts, and feed/premix:

<u>Test</u>	<u>Matrices</u>	<u>In-House Method</u>
β-Hydroxy-β-methylbutyrate (HMB) Analysis using Gas Chromatography/Mass Spectrometry	Plasma Serum Urine	Internal Procedure P-110 HMB
Vitamin D and 25(OH)-Vitamin D in Complex Matrices using High Pressure Liquid Chromatography	Food Mushrooms Supplements Feed/Premix	Internal Procedure P-144 Vitamin D in Complex Matrices
Vitamin D and 25(OH)-Vitamin D in Complex Matrices using Liquid Chromatography/Mass Spectrometry	Food Supplements Feed/Premix Tissue	Internal Procedure P-130 Vitamin D in Complex Matrices via LCMS
Cannabinoids using High Pressure Liquid Chromatography CBD- Cannabidiol CBN- Cannabinol CBDA- Cannabidolic Acid THCA-A- Tetrahydrocannabinolic Acid A Δ8-THC- delta-8-tetrahydrocannabinol Δ9-THC- delta-9-tetrahydrocannabinol	Supplements Extracts	Internal Procedure P-156 Cannabinoids via HPLC

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

HEARTLAND ASSAYS, LLC

Ames, IA

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 the requirements of A2LA 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 15th day of November 2019.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3969.01
Valid to January 31, 2024

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's «field» Scope of Accreditation.