



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

HEARTLAND ASSAYS, LLC
2711 South Loop Drive, Suite 4400
Ames, IA 50010
Dr. John Rathmacher Phone: 515 296 4169

CHEMICAL

Valid To: January 31, 2026

Certificate Number: 3969.01

In recognition of the successful completion of the A2LA evaluation process, 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 and hemp plant material:

<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- Cannabidiolic Acid THCA-A- Tetrahydrocannabinolic Acid A Δ 8-THC- delta-8-tetrahydrocannabinol Δ 9-THC- delta-9-tetrahydrocannabinol	Supplements Extracts Hemp Plant Material	Internal Procedure P-168 Cannabinoids in Complex Matrices



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 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 27th day of November 2023.

A blue ink signature of Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3969.01
Valid to January 31, 2026

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