



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

*Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:*

***University of Georgia's  
Center for Applied Isotope Studies  
120 Riverbend Rd, Athens, GA 30602***

*(Hereinafter called the Organization) and hereby declares that Organization is accredited  
in accordance with the recognized International Standard:*

**ISO/IEC 17025:2017**

This accreditation demonstrates technical competence for a defined scope and the  
operation of a laboratory quality management system  
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

***Radiocarbon and Stable Isotope Ratio Mass Spectrometry  
of  
Biological and Chemical Materials  
(As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this  
certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the  
Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen  
President

*Initial Accreditation Date:*

April 2, 2016

*Issue Date:*

March 29, 2022

*Expiration Date:*

June 30, 2024

*Accreditation No.:*

87144

*Certificate No.:*

L22-245

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*The validity of this certificate is maintained through ongoing assessments based on a  
continuous accreditation cycle. The validity of this certificate should be  
confirmed through the PJLA website: [www.pjllabs.com](http://www.pjllabs.com)*



# Certificate of Accreditation: Supplement

## University of Georgia's Center for Applied Isotope Studies

120 Riverbend Rd., Athens, GA 30602

Contact Name: Mike Marshall Phone: 706-542-1395

*Accreditation is granted to the facility to perform the following testing:*

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Biological and Chemical <sup>F</sup>	Carbon containing products	Radiocarbon ( <sup>14</sup> C) content.	ASTM D6866 Method B	0 pMC to 200 pMC D.L. = 0.14 pMC
		Stable Isotope Ratio ( <sup>13</sup> C/ <sup>12</sup> C)	Stable Isotope Ratio by Isotope Ratio Mass Spectrometry (IRMS) and Cavity Ring-Down Spectroscopy (CRDS)	Range (IRMS): -200 permil to + 100 permil D.L. = 250 mV Range (CRDS): -200 permil to + 100 permil D.L. = 10K to 90K ppm C
	Nitrogen containing products	Stable Isotope Ratio ( <sup>15</sup> N/ <sup>14</sup> N)		Range (IRMS): -5 to + 40 permil D.L. = 500 mV
	Oxygen containing products	Stable Isotope Ratio ( <sup>18</sup> O/ <sup>16</sup> O)		Range (IRMS): -50 permil to + 30 permil (as CO) D.L. = 500 mV Range (CRDS): -100 permil to + 100 permil D.L. = 10K to 90K ppm (as H <sub>2</sub> O)
	Hydrogen containing products	Stable Isotope Ratio Mass Spectrometry (D/H)		Range (IRMS): -600 permil to + 600 permil D.L. = 500 mV Range (CRDS): -400 permil to + 150 permil D.L. = 10K to 90K ppm (as H <sub>2</sub> O)

- The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this testing at its fixed location.