



Center for Applied Isotope Studies
120 Riverbend Road
Athens, Georgia 30602
TEL 706-542-6122 FAX 706-542-6106
rculp@uga.edu
www.cais.uga.edu

April 24, 2019

Mr. Robert Maynard
The Art Treehouse

Dear Mr. Maynard,

Listed below are the results for the Radiocarbon (^{14}C) and Stable Isotope Ratio ($\delta^{13}\text{C}$ and δD) analysis for the samples received by our laboratory April 18, 2019.

Sample	Lot	^{14}C	$\pm 1 \sigma$	$\delta^{13}\text{C}$	$\pm 1 \sigma$	δD	$\pm 1 \sigma$
Oil of Spike Lavendar (lavandula latifolia)	Y19M4D9A	13.36	0.10	-29.37	0.06	-312	1

^{14}C activity is in disintegrations per minute per gram carbon (dpm/g C). ($\pm 1 \sigma$)
 $\delta^{13}\text{C}$ ($^{13}\text{C}/^{12}\text{C}$) is in parts per mil (‰) relative to the international standard PDB. ($\pm 1 \sigma$)
 δD (D/H) is in parts per mil (‰) relative to the international standard V-SMOW. ($\pm 1 \sigma$)
Calculation of uncertainty and methods provided upon request.

The ^{14}C activity of Oil of Spike Lavendar (lavandula latifolia) Y19M4D9A is equivalent to 98% of the 2018 and present day ^{14}C reference activity 13.6 dpm/gC. This indicates no addition or dilution with fossil fuel derived material to this sample.

If we can be of any further assistance, or if you would like to discuss these results please do not hesitate to call.

Sincerely,

Randy Culp, PhD
Associate Director
C.A.I.S. Inv. No: 23408

The University of Georgia Center for Applied Isotope Studies is accredited to ISO/IEC 17025:2005 standard by PJLA, Inc.

The University of Georgia is an Equal Opportunity, Affirmative Action, Veteran, Disability Institution



ISO/IEC 17025:2005



PJLA
Testing

Accreditation No. 87144