



UNIVERSITY OF  
GEORGIA

Center for Applied Isotope Studies  
120 Riverbend Road  
Athens, Georgia 30602  
TEL 706-542-1395 | FAX 706-542-6106  
biobase@uga.edu  
www.cais.uga.edu

## Certificate of Analysis

March 8, 2022

François Loin  
POLLET S.A.  
Rue de la Grande Couture 20  
B-7501 Tournai (Orcq)  
Belgium

Listed below are the isolated results for the ASTM method D6866-20 Radiocarbon ( $^{14}\text{C}$ ) determination with the stable carbon isotope ratio ( $\delta^{13}\text{C}$ ) analyses and their correction for the following sample received by our laboratory on 2/11/2022 and completed on 3/7/2022.

Sample ID/USDA#	$^{14}\text{C}$ (Meas.)		$\delta^{13}\text{C}$	$^{14}\text{C}$ (Corr.)	% Biobase	
	(pMC)	SD	(‰ VPDB)	(pMC)	Carbon	SD
<b>CAPS grease out, USDA# 10308/ 220166</b>	<b>33.06</b>	<b>0.15</b>	<b>-28.18</b>	<b>33.27</b>	<b>33</b>	<b>1</b>

Percent Biobased Carbon is determined from the measured  $^{14}\text{C}$  in percent Modern Carbon (pMC) and corrected for isotopic fractionation based on measured  $\delta^{13}\text{C}$  value (‰ V-PDB). The corrected  $^{14}\text{C}$  activity in pMC is then divided by the 2018 reference  $^{14}\text{C}$  activity of 100.0 pMC, which represents the equivalence to the 1950  $^{14}\text{C}$  reference activity of 13.56 dpm/gC corrected for bomb-produced  $^{14}\text{C}$ , and finally multiplied times 100. The % Biobase Carbon and Standard Deviation (SD) are rounded to the nearest integer. Measured  $^{14}\text{C}$  is normalized using NIST Standard Reference Material 4990C Oxalic acid.

Authorized by,

Michael C Marshall, PhD  
Assistant Research Scientist & Quality Manager  
C.A.I.S. Inv. No: [NPI220815]  
Certificate#: [POLLET\_1-61244I\_1159]