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Certificate of Analysis

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Listed below are the isolated results for the ASTM method D6866-20 Radiocarbon (^{14}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}C (Meas.)		$\delta^{13}\text{C}$	^{14}C (Corr.)	% Biobase	
	(pMC)	SD	(‰ VPDB)	(pMC)	Carbon	SD
CAPS illumin, USDA# 10307/ 220029	89.73	0.28	-17.67	88.42	88	1

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

Authorized by,

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