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Certificate of Analysis

August 5, 2022

Fibonacci LLC/Hempwood
Alyssa Trombetti
301 Rockwood Road
Murray, KY 42071-8345

Listed below are the results for the ASTM method D6866-20 Radiocarbon (^{14}C) determination with the stable carbon isotope ratio ($\delta^{13}C$) analyses and their correction for the following sample received by our laboratory on 7/19/2022 and completed on 8/5/2022.

Sample ID/USDA#	^{14}C (Meas.) (pMC)	SD	$\delta^{13}C$ (o/oo VPDB)	^{14}C (Corr.) (pMC)	% Biobase Carbon	SD
Hempwood Natural Flooring , USDA# 11310	106.39	0.33	-26.94	106.80	95	1
Hempwood , USDA# 11295	95.75	0.32	-28.47	96.42	96	1

Percent Biobased Carbon is determined from the measured ^{14}C in percent Modern Carbon (pMC) and corrected for isotopic fractionation based on measured $\delta^{13}C$ value (o/oo 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.

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

Authorized by,

Michael C Marshall, PhD
Assistant Research Scientist & Quality Manager
C.A.I.S. Inv. No: [**NPI230120**]
Certificate#: [HEMPWOOD_1_1571]

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