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Certificate of Analysis

June 20, 2025

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Listed below are the results for the ASTM method D6866-24 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 5/23/2025 and completed on 6/16/2025.

Sample ID/USDA#	^{14}C (Meas.) (pMC)	SD	$\delta^{13}\text{C}$ (‰ VPDB)	^{14}C (Corr.) (pMC)	% Biobase Carbon	SD
Mohair Plus-3575, USDA# 15331	97.25	0.38	-23.52	96.97	98	1
ProTex Non-Vinyl - CW31, USDA# 15364	57.77	0.26	-27.46	58.05	58	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 2025 reference ^{14}C activity of 99.4 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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