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Certificate of Analysis

March 22, 2022

Peter Wu Macro Eco Leather Co No. 50-52, ZhongQu Street, Shiling Leathe Guangzhu, GuangDong 510850 China

Listed below are the results for the ASTM method D6866-20 Radiocarbon (¹⁴C) determination with the stable carbon isotope ratio (δ^{13} C) analyses and their correction for the following sample received by our laboratory on 3/4/2022 and completed on 3/21/2022.

Sample ID/USDA#	¹⁴ C (Meas.)			δ ¹³ C	¹⁴ C (Corr.)	% Biobase	
	(pMC)	SD	(%)00	VPDB)	(pMC)	Carbon	SD
Bio-based ECO PU Leather, USDA# 10735/ 20211220	68.34	0.22		-26.19	68.50	69	1

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

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Michael C Marshall, PhD Assistant Research Scientist & Quality Manager C.A.I.S. Inv. No: [NPI220891] Certificate#: [MACRO-ECOLEATHER_1_1233]

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