



Biobased and Biogenic Carbon Testing Laboratory

ISO/IEC 17025:2005 Accredited

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Analytical Measure - % Biobased Carbon Content: ASTM D6866-16 Method B (AMS)

Submitter Maxrich Co., Ltd.

Submitter Label Starch-pac (USDA Application# 5334)

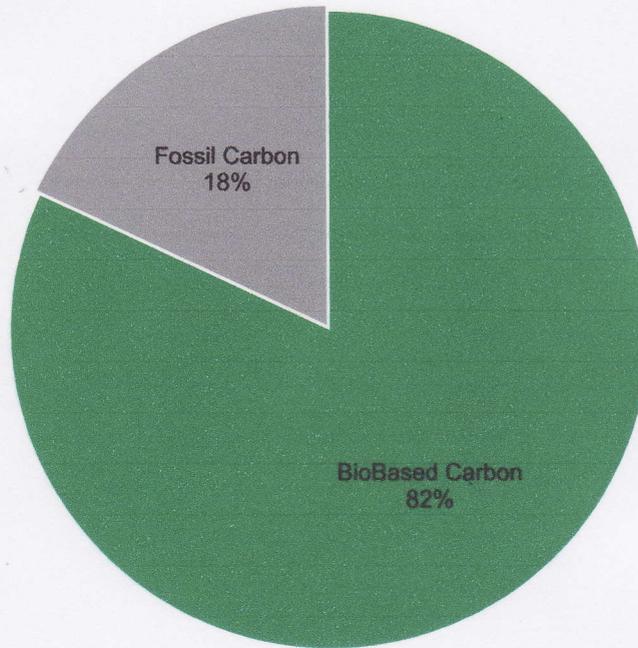
Laboratory Number Beta-444973

Date Received September 07 2016

Date Reported September 12 2016

Percent Biobased Carbon 82 % *

Proportions Biobased Carbon vs. Fossil-Based Carbon indicated by 14C content



* ASTM D6866-16 quotes precision on Percent Biobased Carbon as +/- 3% (absolute). The cited precision on the analytical measure (pMC) is 1 sigma (1 relative standard deviation). The reported result only applies to the analyzed material. The accuracy of the % biobased carbon result relies on the carbon present in the analyzed material having been in recent equilibrium with CO₂ in the air and/or fossil carbon (from living systems more than 40,000 years old). "Percent biobased carbon" specifically relates % renewable (i.e. non-fossil) organic carbon to total organic carbon, not to total mass. Percent biobased carbon is calculated by dividing pMC by the applicable REF adjustment factor specified in ASTM D6866-16. % biobased carbon = [pMC / REF] +/- 3% absolute).