

Effect of Particle Size on the Physical Properties of PLA/Potato Peel Composites

Katharina Miller ^{1,2}, Corina L. Reichert ¹, Myriam Loeffler ² and Markus Schmid ^{1,*}

¹ Sustainable Packaging Institute SPI, Faculty of Life Sciences, Albstadt-Sigmaringen University, 72488 Sigmaringen, Germany

² Meat Technology & Science of Protein-Rich Foods (MTSP), Department of Microbial and Molecular Systems, Leuven Food Science and Nutrition Research Centre, KU Leuven Campus Ghent, B-9000 Ghent, Belgium

* Correspondence: schmid@hs-albsig.de; Tel.: +49-(0)-7571-732-8402

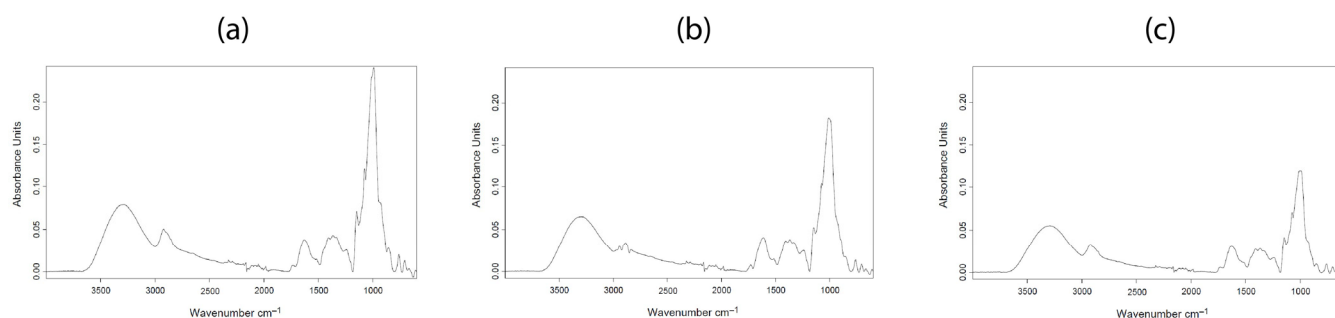


Figure S1. Averaged ATR-FTIR spectra of different potato peel particle sizes: (a) 0–53 μm , (b) 125–250 μm , and (c) 315–500 μm .

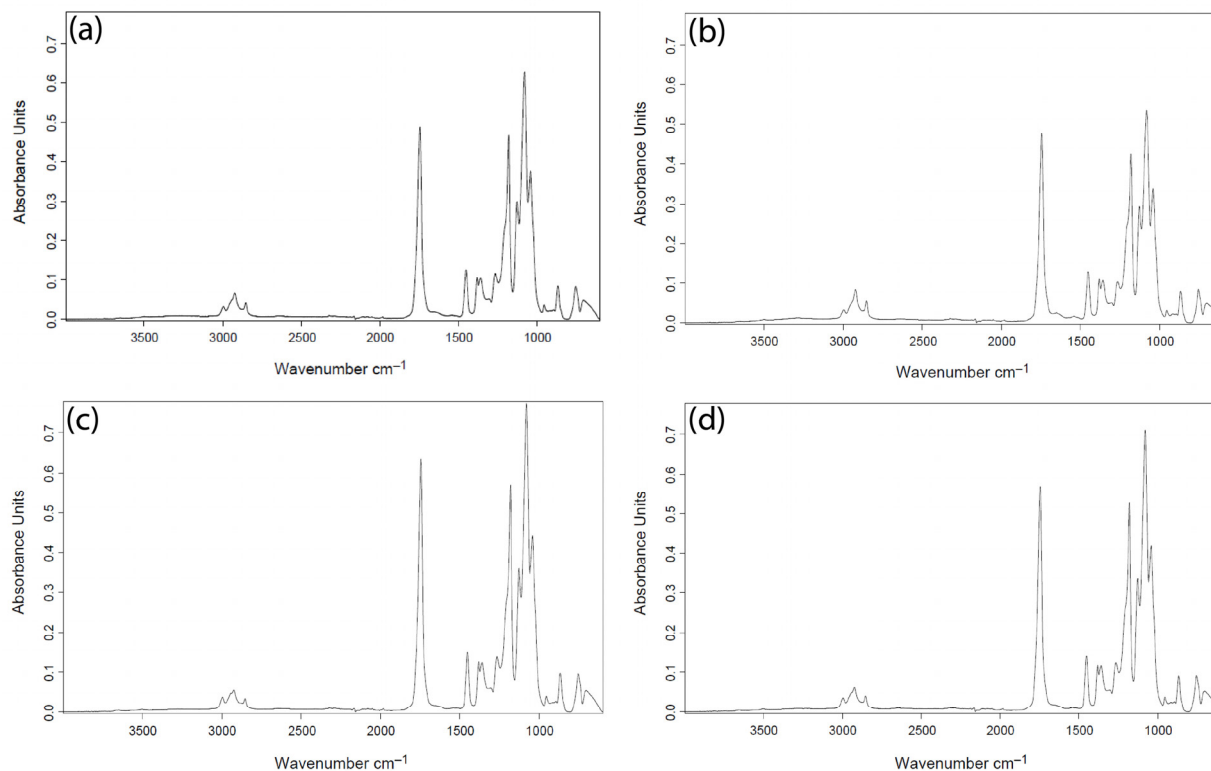


Figure S2. Averaged ATR-FTIR spectra of the surface of neat PLA specimens and PLA-Peel biocomposite specimens containing different potato peel particle sizes. (a) neat PLA, (b) PLA-Peel biocomposite (0–53 μm), (c) PLA-Peel biocomposite (125–250 μm), and (d) PLA-Peel biocomposite (315–500 μm).

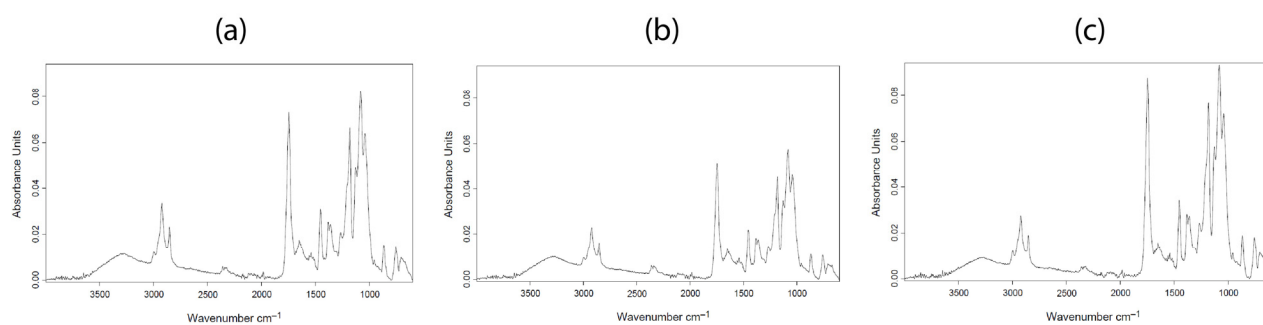


Figure S3. Averaged ATR-FTIR spectra of cross-sectional area of PLA-Peel biocomposite specimens containing different potato peel particle sizes: **(a)** 0–53 μm , **(b)** 125–250 μm , and **(c)** 315–500 μm .