

Supporting Information

Silver Nanoparticle-Coated Polyhydroxyalkanoate Based Electrospun Fibers for Wound Dressing Applications

Ozlem Ipek Kalaoglu-Altan ^{1,2}, Havva Baskan ^{1,2}, Timo Meireman ¹, Pooja Basnett ³, Bahareh Azimi ^{4,5}, Alessandra Fusco ^{4,6}, Niccola Funel ⁷, Giovanna Donnarumma ^{4,6}, Andrea Lazzeri ⁵, Ipsita Roy ⁸, Serena Danti ⁵ and Karen De Clerck ^{1,*}

¹ Department of Materials, Textiles and Chemical Engineering, Ghent University, 9000 Ghent, Belgium; kalaoglualtan@itu.edu.tr (O.I.K.-A.); baskan@itu.edu.tr (H.B.); timo.meireman@ugent.be (T.M.); karen.declerck@ugent.be (K.D.C.),

² Department of Textile Engineering, Istanbul Technical University, 34437 Istanbul, Turkey

³ School of Life Sciences, College of Liberal Arts and Sciences, University of Westminster, London W1W 6UW, UK; p.basnett@westminster.ac.uk

⁴ Department/Laboratory, Interuniversity National Consortiums of Materials Science and Technology (INSTM), 50121 Firenze, Italy; bahareh.azimi@ing.unipi.it (B.A.); alessandra.fusco@unicampania.it (A.F.); giovanna.donnarumma@unicampania.it (G.D.)

⁵ Department of Civil and Industrial Engineering, University of Pisa, 56126 Pisa, Italy; andrea.lazzeri@unipi.it (A.L.); serena.danti@unipi.it (S.D.)

⁶ Department of Experimental Medicine, University of Campania “Luigi Vanvitelli”, 80125 Naples, Italy

⁷ Department of Translational Research and New Technologies in Medicine and Surgery, University of Pisa, 56126 Pisa, Italy; niccola.funel@gmail.com

⁸ Faculty of Engineering, Department of Materials Science & Engineering, University of Sheffield, Sheffield S3 7HQ, UK; i.roy@sheffield.ac.uk

* Correspondence: karen.declerck@ugent.be

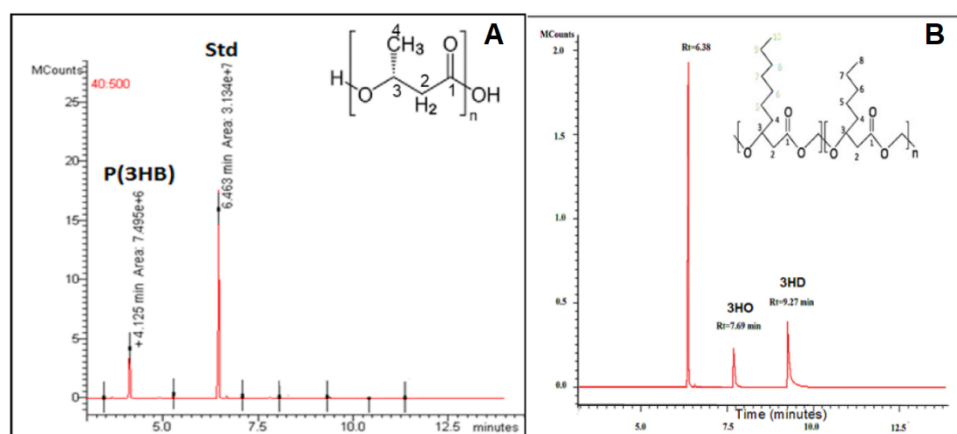


Figure S1. Gas Chromatography Mass Spectrometry (GCMS) results of (A) P(3HB), (B). P(3HO-co-3HD).

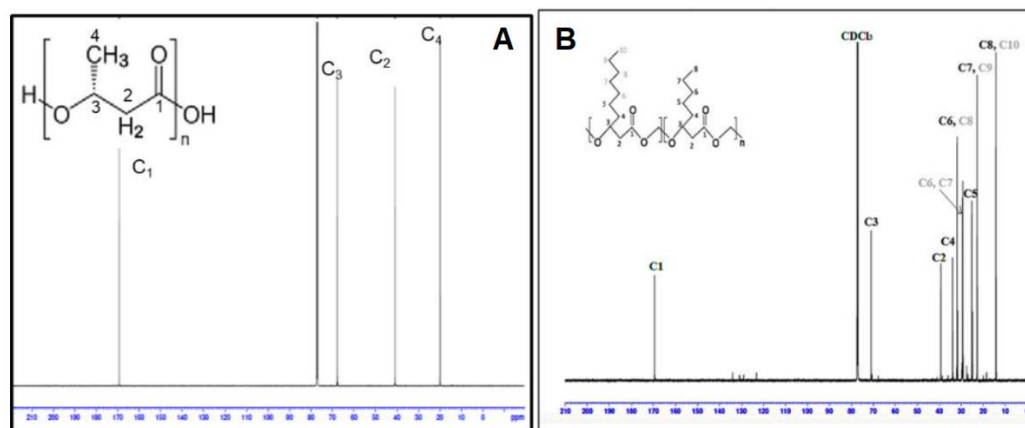


Figure S2. ^{13}C Nuclear Magnetic Resonance (NMR) results of (A) P(3HB), (B) P(3HO-co-3HD).

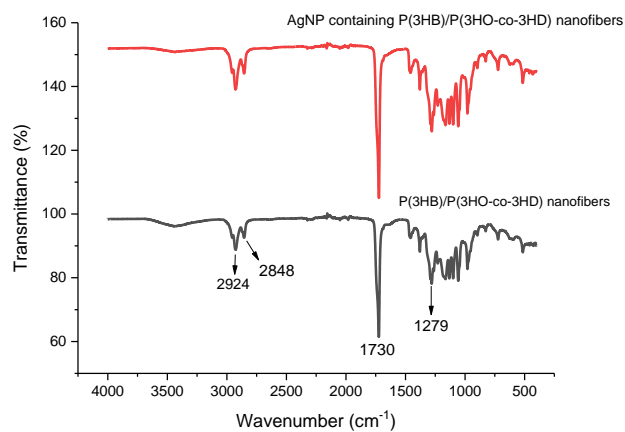


Figure S3. FTIR-ATR spectrum of neat P(3HB)/P(3HO-co-3HD) nanofibers (black) and Ag NPs containing P(3HB)/P(3HO-co-3HD) nanofibers (red).

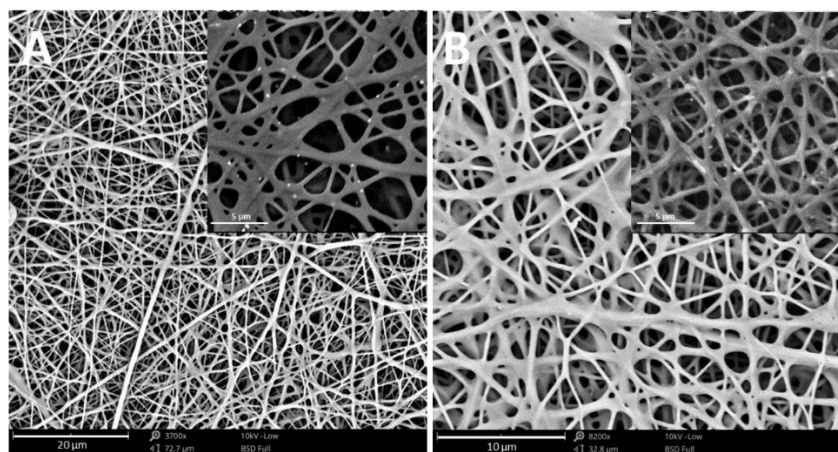


Figure S4. SEM images of AgNP-containing P(3HB)/P(3HO-co-3HD) nanofibers obtained by (A) protocol 1, (B) protocol 2. Images with higher magnifications are given as insets.