

FIG S1 Scanning electron microscopy (SEM) images of nanofibers and nanofiber diameters. SEM images of PEO 50:PDLLA 50 nanofibers electrospun (A) without nisin and (B) electrospun with nisin. Distribution of nanofiber diameters in samples electrospun without nisin (CF) and with nisin (NF) are shown in (C).

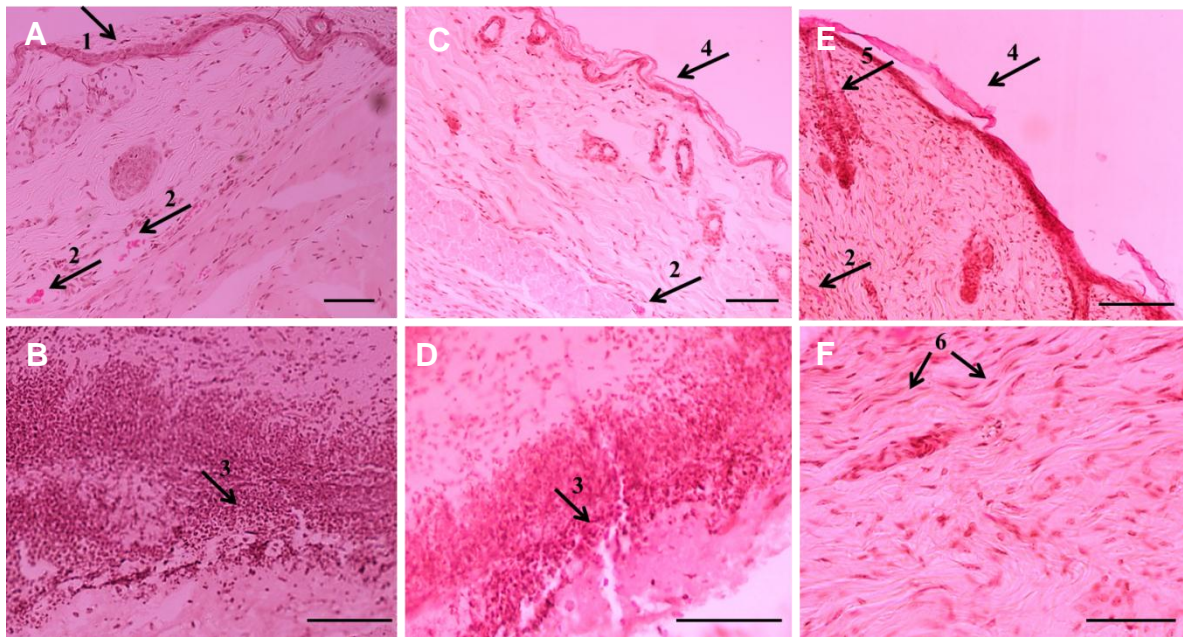


FIG S2 Histological analysis of non-infected full-thickness excisional wounds in mice covered with gauze, nisin-eluting- and control-PEO 50:PDLLA 50 nanofiber wound dressings to investigate wound healing. Skin sections (stained with H&E) of excisional wounds covered with gauze (A: wound bed and B: tissue adjacent to wound bed), control PEO 50:PDLLA 50 nanofibers (C: wound bed and D: tissue adjacent to wound bed) and nisin-containing nanofibers (E and F, both of wound bed) on day 7. 1: re-epithelialization, 2: neovascularization, 3: neutrophils, 4: keratinization, 5: hair follicle and 6: fibrosis (fibrotic scar formation). Scale bar = 20 μm .