Supporting information

for

Engineering vascularized dermal grafts by integrating a biomimetic scaffold and Wharton's jelly MSCs-derived endothelial cells

Xiufang Li,[a,b,1] Renchuan You,[a,b,1] Qiang Zhang,[b] Shuqin Yan,[b] Zuwei Luo,[b] Jing Qu [a] and Mingzhong Li*[a]

[a]National Engineering Laboratory for Modern Silk, College of Textile and Clothing Engineering, Soochow University, Suzhou 215123, China

[b]State Key Laboratory for Hubei New Textile Materials and Advanced Processing Technologies, School of Textile Science and Engineering, Wuhan Textile University, Wuhan 430200, China

[#]*Both authors contributed equally to this work.*

*Corresponding authors:

Prof. Mingzhong Li (E-mail: mzli@suda.edu.cn)

Table S1. Sequences of primers used in real-time PCR.

GAPDH-F	**GTCACTGGTGGACCTGACCT**
GAPDH-R	**AGGGGTCTACATGGCAACTG**
CD31-F	**GGTGGATGAGGTCCAGATTTC**
CD31-R	**CAGCACAATGTCCTCTCCAG**
VEGF-F	**GCTCAGAGCGGAGAAAGCAT**

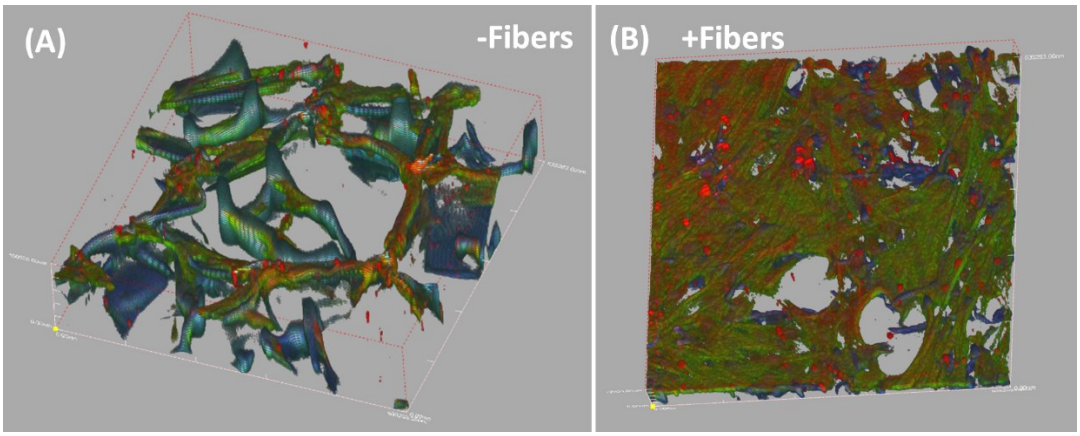

Figure S1. 3D confocal images of the cells-seed scaffolds. (A) the scaffold without nanofibrous structure, (B) the scaffold with fibrous microstructure.

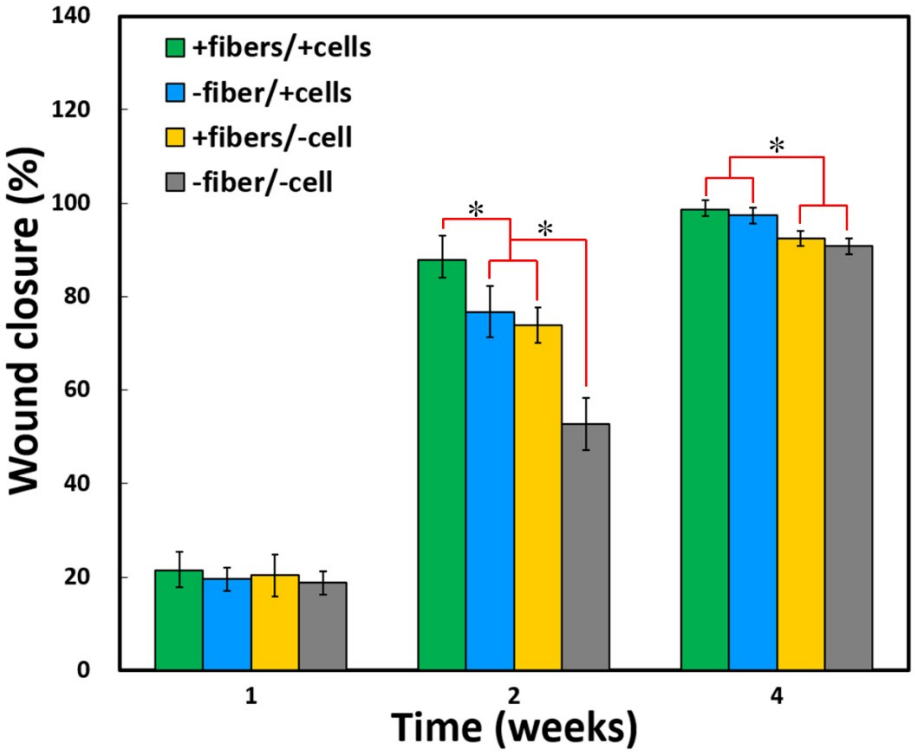

Figure S2. Quantitative evaluation of wound closure at different time points (*$p <$ 0.05, n=3).