**Supplemental Materials**

**Table S1.** Primer sequence for RT-PCR analysis.

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| Gene | Sequence (5’ - 3’) |
| rabbit β-actin | Forward: GCAGAA ACGAGACGAGATTGReverse: GCAGAACTTTGGGGACTTTG |
| rabbit collagen I | Forward: AAGAGCCTGAGCCAGCAGATReverse: AGCCTTGGTTGGGGTCAAT |
| rabbit collagen II | Forward: TCCTGTGCGACGACATAATCTReverse: GCAGTGGCGAGGTCAGTAG |
| rabbit aggrecan | Forward: CACCCCGAGAATCAAATGGAReverse: TGGGCAGCGAGACCTTGT |
| rabbit SOX9 | Forward: AGGTGCTCAAGGGCTACGACReverse: TTGACGTGGGGCTTGTTCT |
| human β-actin | Forward: AAGGTGACAGCAGTCGGTTReverse: TGTGTGGACTTGGGAGAGG |
| human collagen I | Forward: AGGGCCAAGACGAAGACATCReverse: GTCGGTGGGTGACTCTGAGC |
| human collagen II | Forward: CAGGATGGGCAGAGGTATReverse: CGTCTTCACAGATTATGTCGT |
| human SOX9 | Forward: GATGAAATCTGTTCTGGGAATGTReverse: AACTGCTGGTGTTCTGAGAGG |
| human aggrecan | Forward: GCCAGCACCACCAATGTAAGReverse: CCTCCACGAACTCAGAAGTGAT |

**Table S2.** Physicochemical properties of the native meniscus and electrospun yarn scaffold.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Pore size | UTS | Young’s modulus | Strain at failure |
| Native meniscus | 12 ± 3.4 μm | 5.3 ± 2 MPa | 15.6 ± 4.2 MPa | 36 ± 9% |
| Yarn scaffold | 29 ± 1.5 μm | 2 ± 0.3 MPa | 5.6 ± 0.8 MPa | 99 ± 10% |