**Supplementary Table S1.** Optimization of electrospinning parameters to fabricate bead-free nanofibers.

| NF Type | *h* (%) | *t* °C | GE/GTEP Conc (%) | LV (ml) | NS (G) | V (kV) | Angle (°) | d (cm) | R (rpm) | FL (mL/h) | Taylor Cone | Fiber | Bead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GE Outer layer | 80-85 | 20-25 | 30/0 | 10 | 18 | 22.5 | 35 | 24 | 1000 | 1 | X | X | √ |
| GE Outer layer | 80-85 | 20-25 | 30/0 | 10 | 21 | 21 | 32 | 22 | 900 | 0.9 | X | X | √ |
| GE Outer layer | 80-85 | 20-25 | 30/0 | 10 | 21 | 18.9 | 26 | 18 | 800 | 0.8 | √ | √ | X |
| GE Outer layer | 80-85 | 20-25 | 30/0 | 10 | 21 | 18.2 | 24 | 16 | 600 | 0.7 | √ | √ | X |
| GE Outer layer | 80-85 | 20-25 | 30/0 | 10 | 21 | 18 | 24 | 14.5 | 500 | 0.6 | √ | √ | X |
| GGTEP 1% | 80-85 | 20-25 | 30/1 | 10 | 23 | 22 | 28 | 16 | 1000 | 1 | X | X | √ |
| GGTEP 1% | 80-85 | 20-25 | 30/1 | 10 | 23 | 21.5 | 26 | 15 | 800 | 0.8 | X | X | √ |
| GGTEP 1% | 80-85 | 20-25 | 30/1 | 10 | 21 | 21.5 | 26 | 15 | 800 | 0.7 | X | X | √ |
| GGTEP 1% | 80-85 | 20-25 | 30/1 | 10 | 21 | 22.2 | 26 | 15.5 | 500 | 0.6 | √ | √ | X |
| GGTEP 1% | 80-85 | 20-25 | 30/1 | 10 | 21 | 22 | 24 | 15 | 600 | 0.6 | √ | √ | X |
| GGTEP 2% | 80-85 | 20-25 | 30/2 | 10 | 23 | 24 | 28 | 18 | 1000 | 1 | X | X | √ |
| GGTEP 2% | 80-85 | 20-25 | 30/2 | 10 | 23 | 23 | 28 | 16 | 800 | 0.6 | X | X | √ |
| GGTEP 2% | 80-85 | 20-25 | 30/2 | 10 | 21 | 22.5 | 26 | 14 | 600 | 0.6 | √ | √ | X |
| GGTEP 2% | 80-85 | 20-25 | 30/2 | 10 | 21 | 21.5 | 25 | 12.5 | 500 | 0.6 | √ | √ | X |
| GGTEP 2% | 80-85 | 20-25 | 30/2 | 10 | 21 | 21 | 25 | 12 | 600 | 0.7 | X | X | √ |
| GGTEP 3% | 80-85 | 20-25 | 30/3 | 10 | 25 | 18.5 | 24 | 16 | 600 | 0.7 | X | X | √ |
| GGTEP 3% | 80-85 | 20-25 | 30/3 | 10 | 23 | 18 | 24 | 15 | 600 | 0.7 | X | X | √ |
| GGTEP 3% | 80-85 | 20-25 | 30/3 | 10 | 21 | 19 | 25 | 14 | 500 | 0.7 | √ | √ | √ |
| GGTEP 3% | 80-85 | 20-25 | 30/3 | 10 | 21 | 20 | 26 | 12.5 | 500 | 0.7 | √ | √ | X |
| GGTEP 3% | 80-85 | 20-25 | 30/3 | 10 | 21 | 21 | 26 | 12 | 600 | 0.6 | √ | √ | X |

GE, Gelatin, GGTEP, Gelatin and Green tea extract powder, H= Humidity, T= Temperature, LV= Syringe load volume, NS= Nozzle size, V=Voltage, R= Drum rotation, d= Distance from needle to rotating drum collector, R= Drum rotation speed, FL= Flow rate of the solution