Preparation and Characteristics of Polyethylene Oxide/Curdlan Nanofiber Films by Electrospinning for Biomedical Applications

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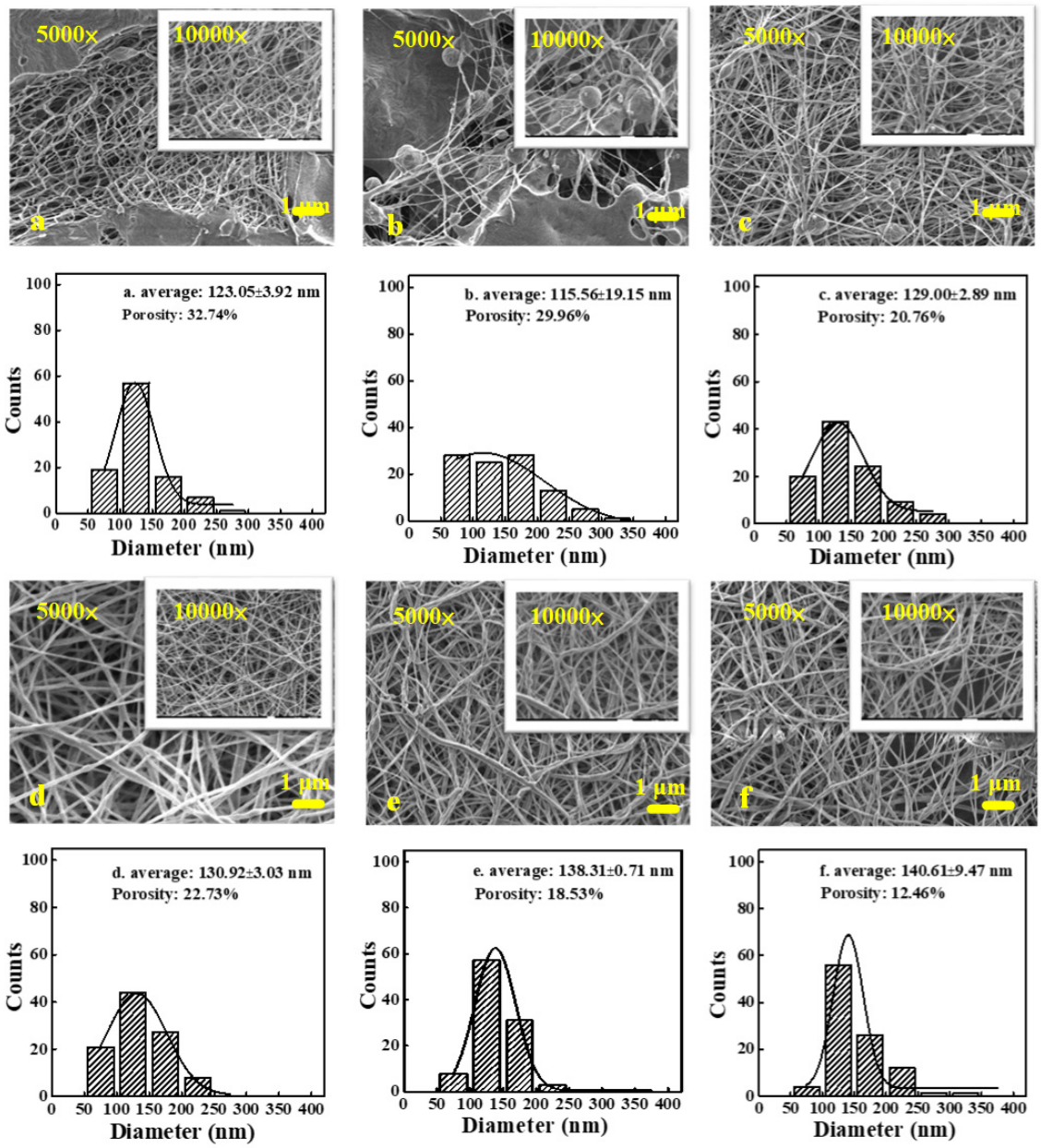


Figure S1. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning under various operating voltages of (a) 12, (b) 14, (c) 17.5, (d) 19, (e) 22 and (f) 24 kV. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 1.0 wt.% cardlan gum.

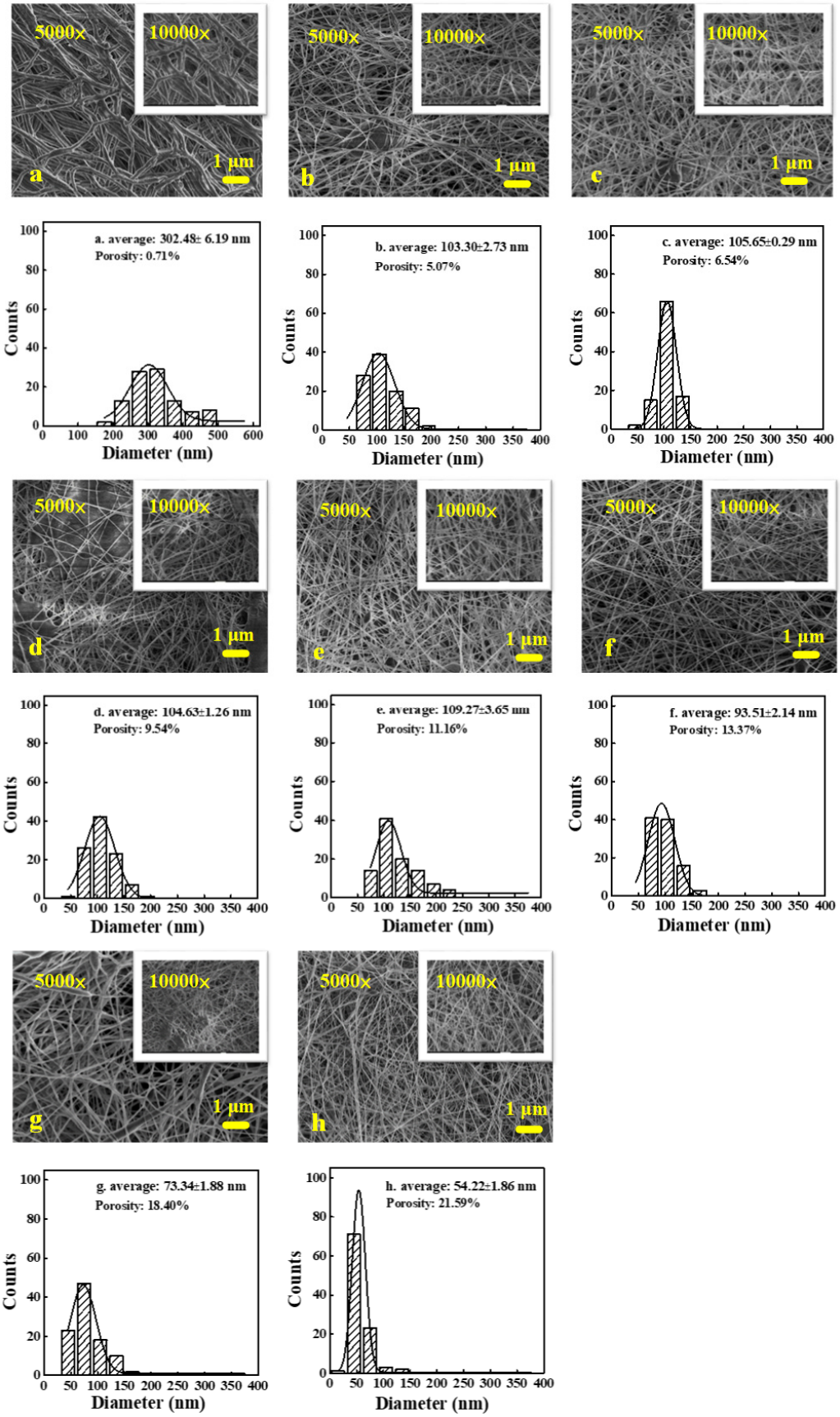


Figure S2. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning under various operating voltages of (a) 12, (b) 14, (c) 16, (d) 17, (e) 17.5, (f) 19, (g) 22 and (h) 24 kV. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 2.0 wt.% cardlan gum.

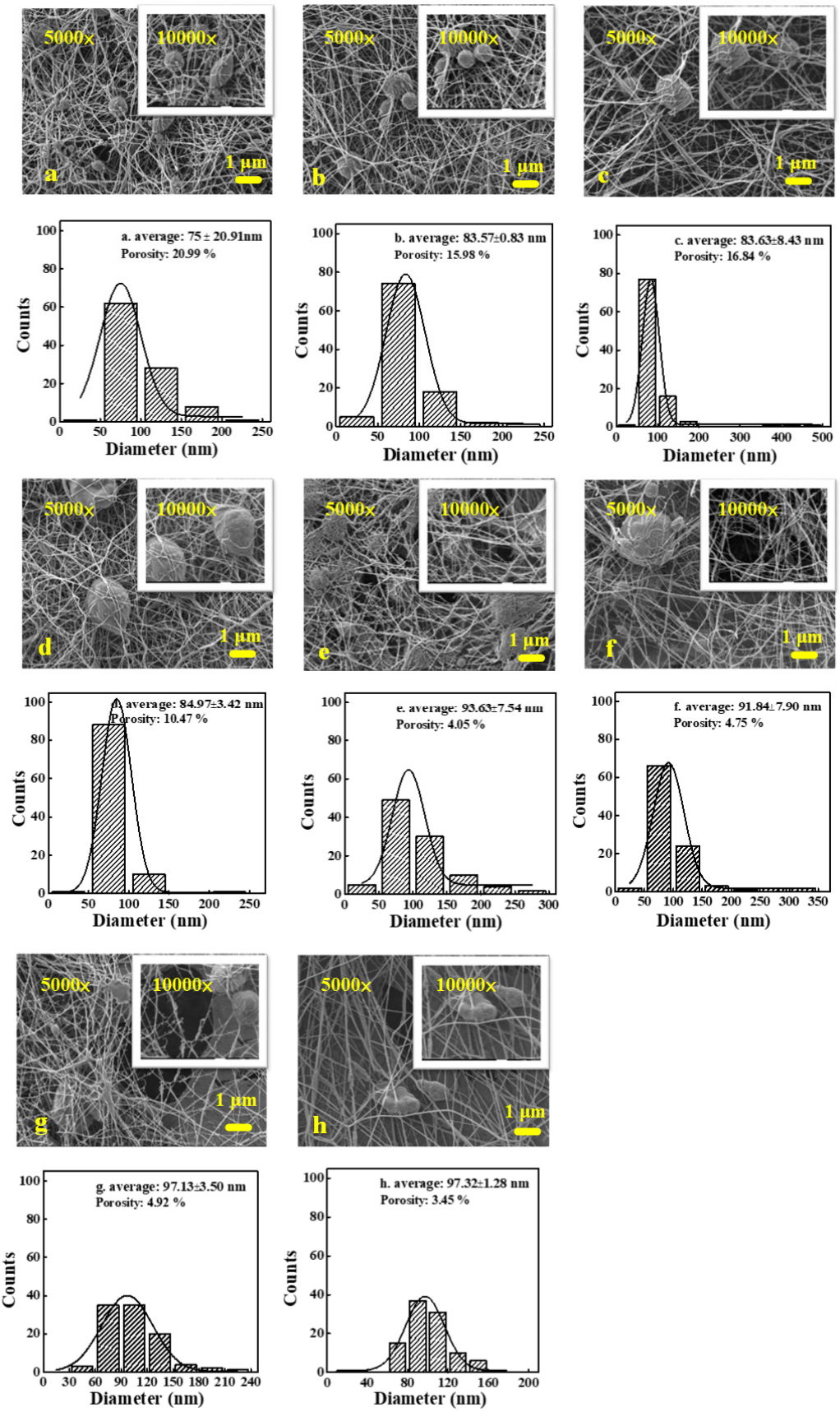


Figure S3. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning under various operating voltages of (a) 12, (b) 14, (c) 16, (d) 17, (e) 17.5, (f) 19, (g) 22 and (h) 24 kV. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 5.0 wt.% cardlan gum.

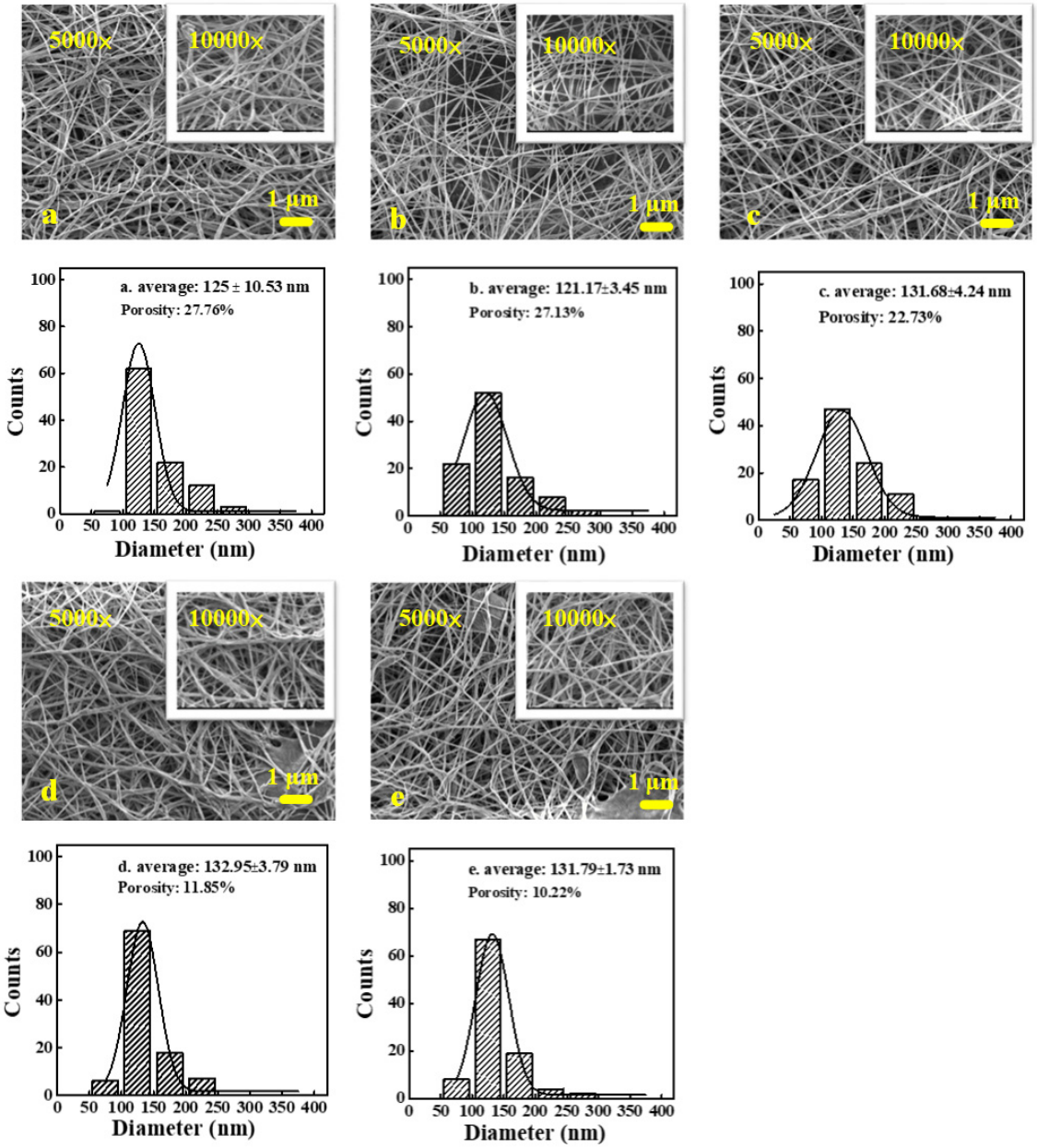


Figure S4. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning at various working distances of (a) 12, (b) 13, (c) 15, (d) 17 and (e) 20 cm. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 1.0 wt.% cardlan gum.

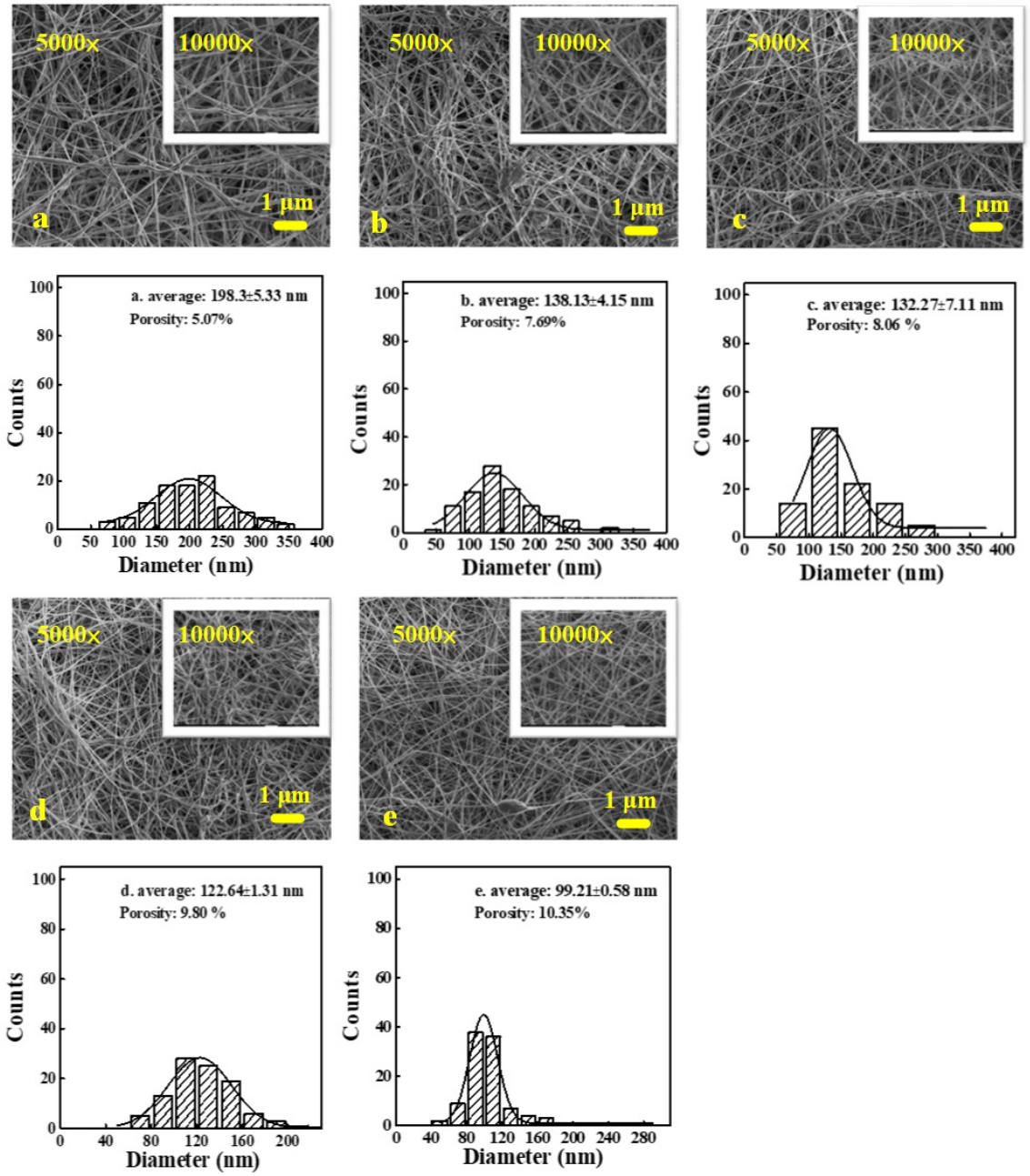


Figure S5. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning at various working distances of (a) 12, (b) 13, (c) 15, (d) 17 and (e) 20 cm. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 2.0 wt.% cardlan gum.

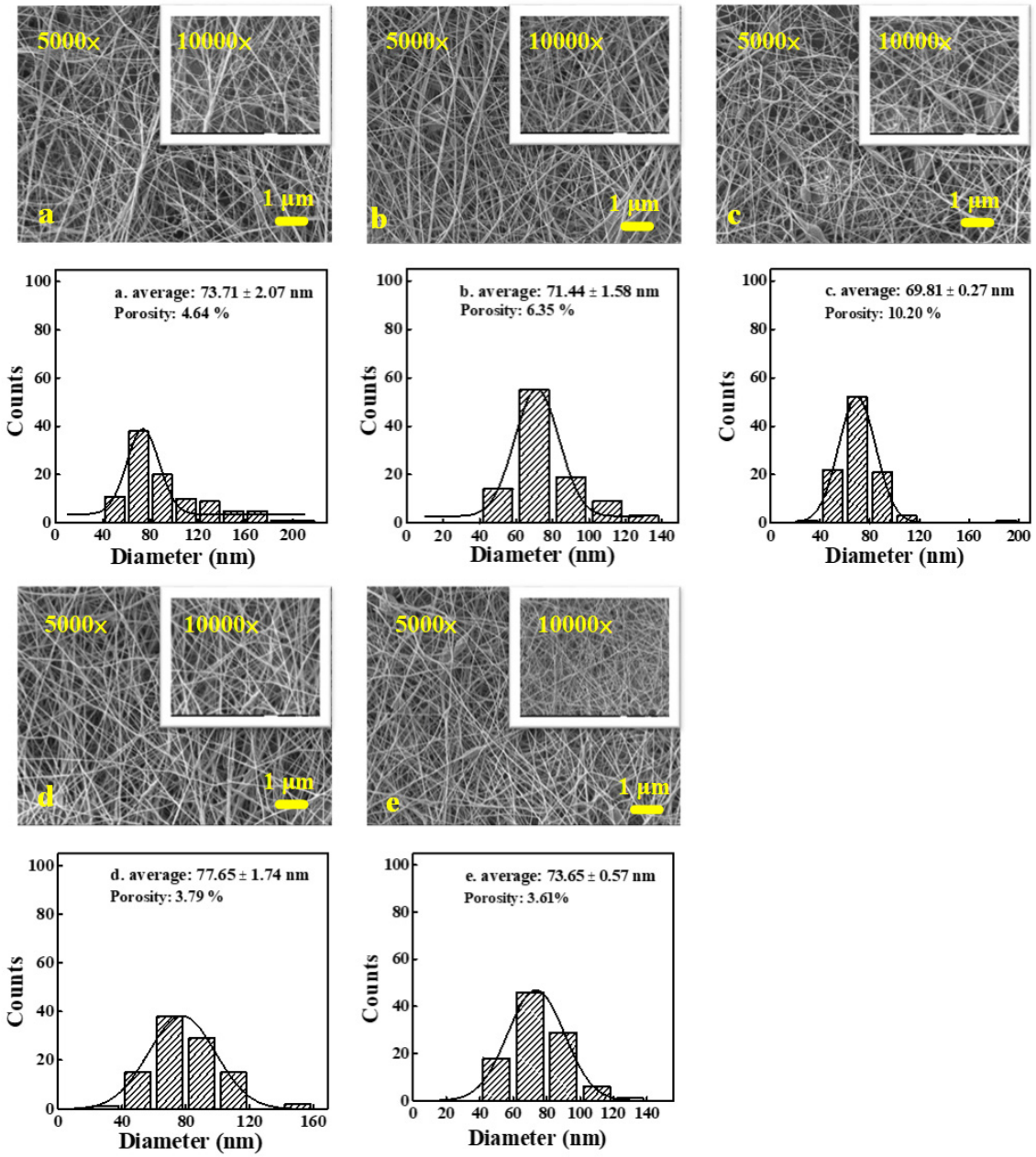


Figure S6. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning at various working distances of (a) 12, (b) 13, (c) 15, (d) 17 and (e) 20 cm. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 5.0 wt.% cardlan gum.

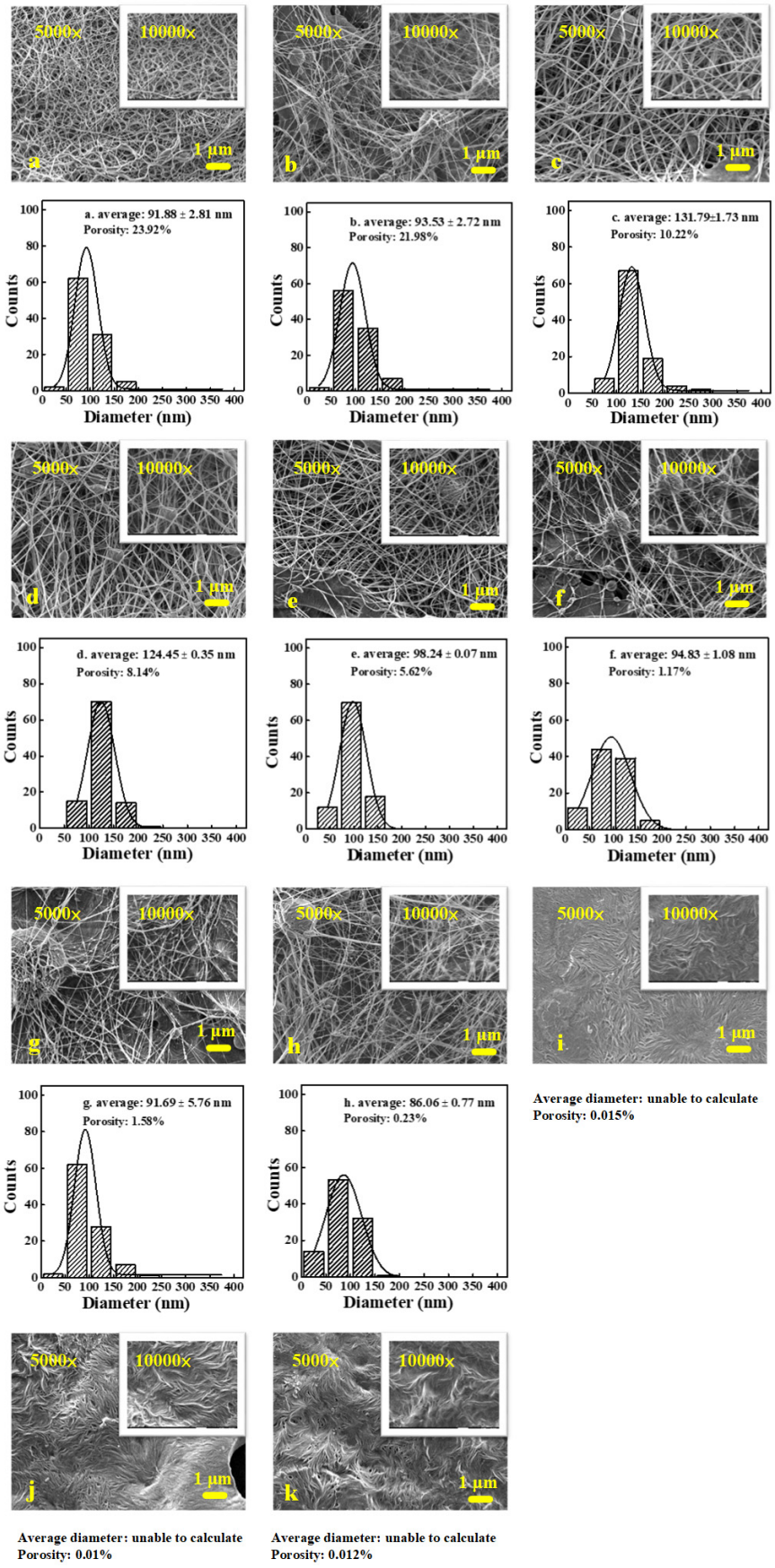


Figure S7. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning at various feeding rates of (a) 5, (b) 8, (c) 9, (d) 11, (e) 15, (f) 20, (g) 25, (h) 30, (i) 35 (j) 40 and (k) 50 μL/min. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 1.0 wt.% cardlan gum.

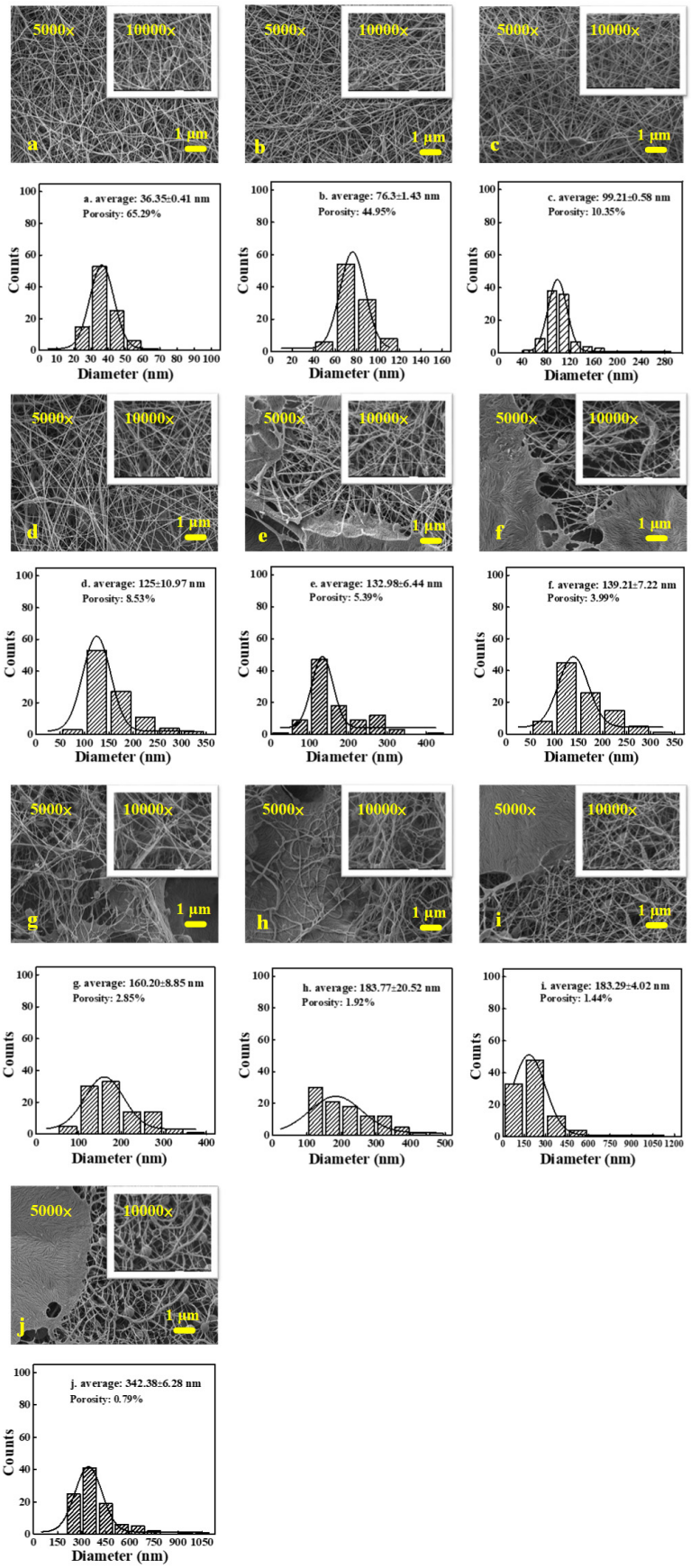


Figure S8. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning at various feeding rates of (a) 5, (b) 8, (c) 9, (d) 11, (e) 15, (f) 20, (g) 25, (h) 30, (i) 35 and (j) 40 μL/min. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 2.0 wt.% cardlan gum.

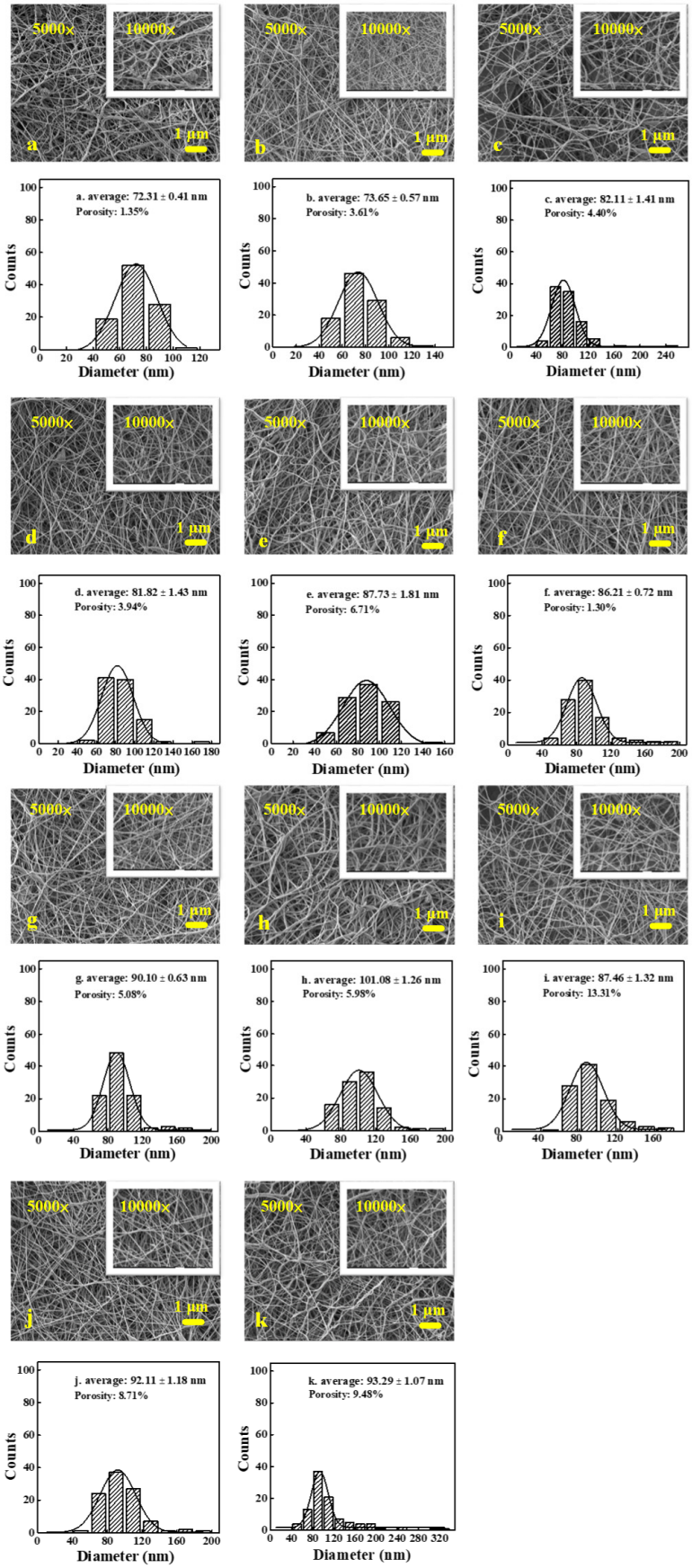


Figure S9. SEM images and fiber-diameter scatter diagrams of PEO/curdlan nanofiber films prepared by electrospinning at various feeding rates of (a) 5, (b) 9, (c) 10, (d) 15, (e) 20, (f) 25, (g) 30, (h) 35, (i) 40, (j) 45 and (k) 50 μL/min. The polymer solution used in the electrospinning process was mixed with 6.0 wt.% PEO and 5.0 wt.% cardlan gum.