

ASSOCIATED CONTENT

Supporting Information

Table S1. Processing and environmental conditions for the electrospinning of PS

Rotational Speed	2 m/min
Traverse Speed	0.5 cm/sec
Syringe Speed	20 mm/sec
Working Distance	17 cm
Voltage	25 kV
Processing Time	20 min
Temperature	25°C
Humidity	65%

Table S2. ELISA Antibody / Antigen Reagents

1 st Antibody	Goat Anti-Human Albumin	10 µg/mL
Antigen	Human Serum Albumin	1 µg/mL
2 nd Antibody	Goat Anti-Human Albumin FITC-Conjugated	10 µg/mL

Table S3. ELISA Solution Reagents

Wash Solution	Tw20 0.05 vol% to PBS
Blocking Solution	25 vol% BlockingONE to H ₂ O
Second Antibody Diluent	Tw20 0.05 vol% : Blocking ONE 1.00 vol% to PBS

Table S4. Total Reagent Consumption and Processing Time Summary

Step	Reagent Consumption	Processing Time	
		PS Flat	ESPS Fiber Mat
1st Antibody Immobilization	1000 ng / sample	60 min	60 min
Blocking	200 µL / sample (BlockingONE)	60 min	60 min
Antigen Capture	500 ng / sample	60 min	5 sec
Measurement	1000 ng / sample	120 min	120 min