

Supplementary Material

Rapid Multiplex Microfiber-Based Immunoassay for Anti-MERS Antibody Detection

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Supplementary Tables

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	60%

Table S2. Detailed descriptions of reagents consumed in the rapid immunoassay protocol together with total processing, analysis and overall total time necessary.

Steps	Sample Type	Reagent Consumption	Processing Time	Diluent
O ₂ Plasma Treatment	ESPS 10wt% - 8 layer	N/A	3 min	N/A
Antigen Immobilization	HSA	200 µg/mL (6 µL)	<1 min	PBS
	His-MERS-N	200 µg/mL (6 µL)		PBS
Blocking	Skim Milk	2 w/v (2 mL)	1 min	PBS-T
Antibody	FITC-Conjugated Goat Anti-Human Albumin	1:100 (1 mL)	1 min	PBS-T
	FITC-Conjugated MERS NP #20	1:50 (1 mL)		PBS-T