Supporting Information

Title: Extraction, separation and characterization of endotoxins in water samples using solid phase extraction and capillary electrophoresis-laser induced fluorescence

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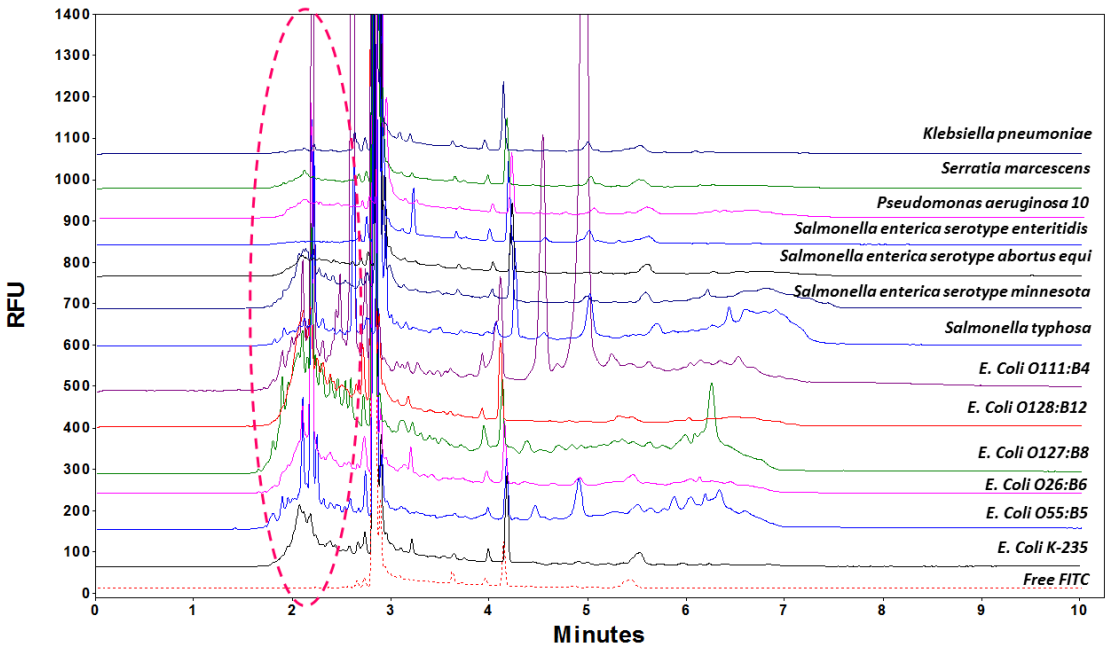

Fig. S1 LPS separation in 40 mM $Na_2B_4O_7$ buffer and 40 mM SDS, pH 9.30; Bare fused silica capillary, (I.D. 50 µm); Total length: 50 cm; Voltage: 30 kV; Sample storage: 25 °C; Sample injection time: 5 s.

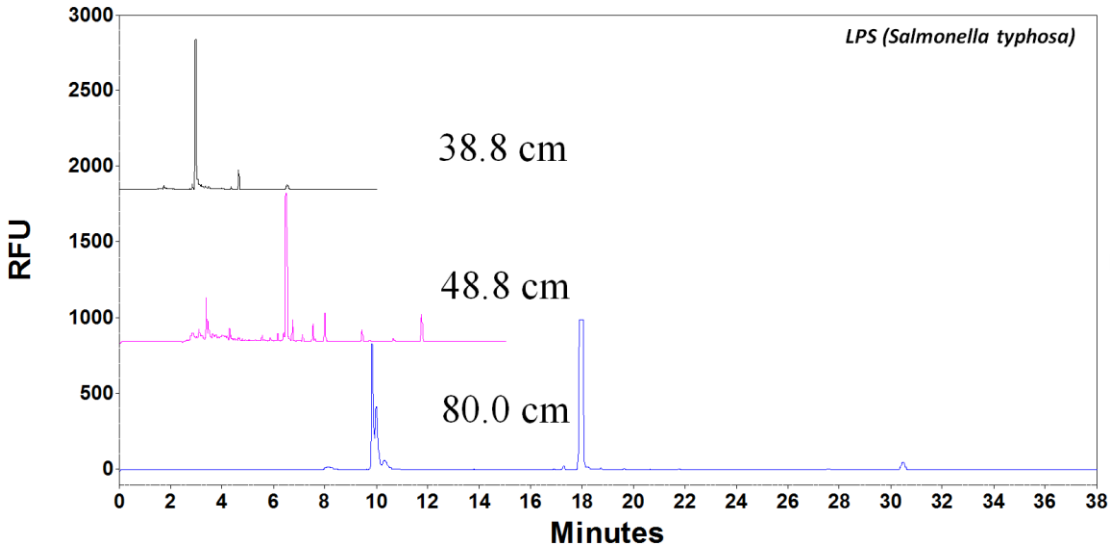

Fig. S2 LPS separation in 50 mM $Na_2B_4O_7$ buffer with different capillary lengths. Other conditions: Separation buffer: $Na_2B_4O_7$ (50 mM), pH 9.30; Bare fused silica capillary, (I.D. 50 µm); Total length: 39 cm; Voltage: 30 kV; Sample storage: 25 °C; Sample injection time: 5 s.

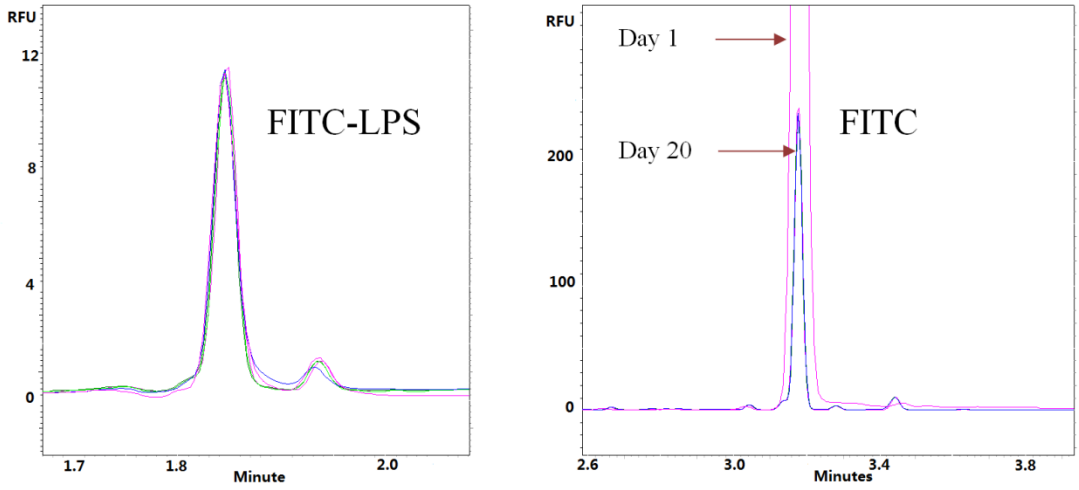

Fig. S3 Stability study of LPS-FITC from Day 1 to Day 20. Other conditions: Separating in buffer: $Na_2B_4O_7$ (50 mM), pH 9.30; Bare fused silica capillary, (I.D. 50 µm); Total length: 39 cm; Voltage: 30 kV; Sample storage: 25 °C; Sample injection time: 5 s.

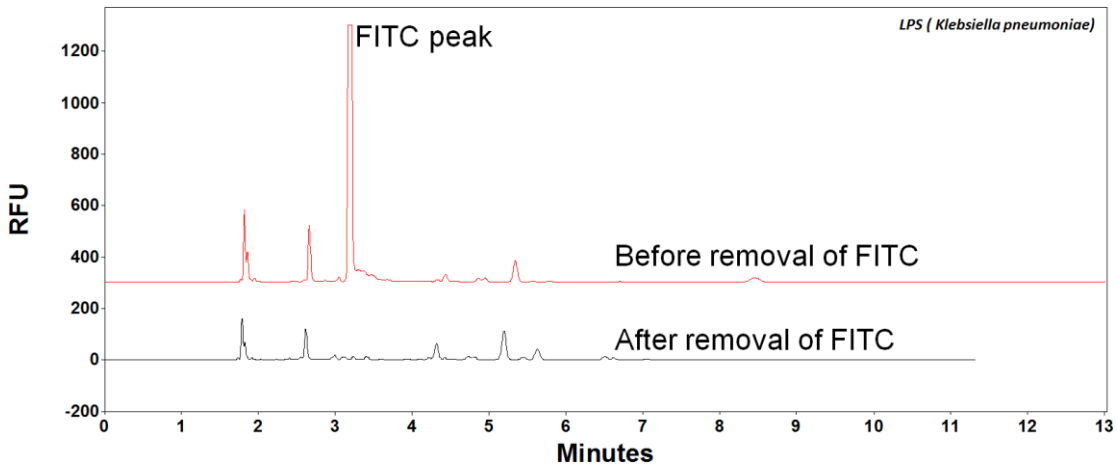

Fig. S4 (1-3)-β-D-glucans interference test. (1) FITC-beta-glucan; (2) FITC control. Other conditions: Separating in buffer: $Na_2B_4O_7$(50 mM), pH 9.30; Bare fused silica capillary, (I.D. 50 µm); Total length: 39 cm; Voltage: 30 kV; Sample storage: 25 °C ; Sample injection time: 5 s.

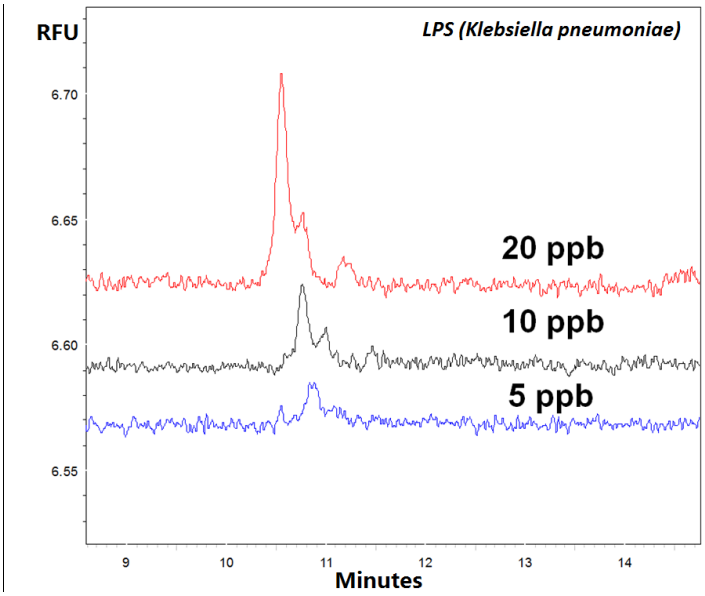

Fig. S5 Investigation of detection limit of endotoxin from *Klebsiella Pneumonia* by ultrapure water dilution. Other conditions: Separating in buffer: $Na_2B_4O_7$ (50 mM), pH 9.30; Bare fused silica capillary, (I.D. 100 µm); Total length: 60 cm; Voltage: 15 kV; Sample injection time: 10 s.