

Supplementary Materials: Development of an Immunochromatographic Strip Using Conjugated Gold Nanoparticles for the Rapid Detection of *Klebsiella pneumoniae* Causing Neonatal Sepsis

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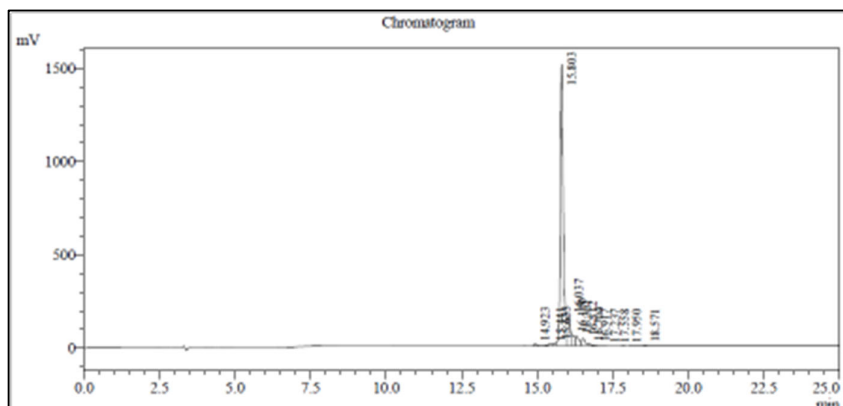


Figure S1. HPLC chromatogram showing one major peak for KP_397(50-68) at retention time of 15.8 min. Analysis was carried out using Alltima™ C18 5 μ m, 4.6 \times 250 mm column, mobile phase A: 0.065% TFA in water & B:0.05% TFA in acetonitrile, at flow rate of 1 ml/min and detection at 220 nm.

Table S1. Analysis of the peaks detected in the HPLC of KP_397(50-68).

| Peak# | Ret. Time | Area | Height | Area % |
|-------|-----------|----------|---------|---------|
| 1 | 14.923 | 73772 | 9004 | 0.568 |
| 2 | 15.441 | 118940 | 9985 | 0.916 |
| 3 | 15.633 | 101532 | 18130 | 0.782 |
| 4 | 15.803 | 10299956 | 1508188 | 79.296 |
| 5 | 16.037 | 1126114 | 162584 | 8.670 |
| 6 | 16.150 | 339909 | 57774 | 2.617 |
| 7 | 16.301 | 429368 | 51494 | 3.306 |
| 8 | 16.512 | 343949 | 39608 | 2.648 |
| 9 | 16.704 | 78667 | 9778 | 0.606 |
| 10 | 16.917 | 35591 | 3302 | 0.274 |
| 11 | 17.237 | 17034 | 1568 | 0.131 |
| 12 | 17.558 | 5119 | 436 | 0.039 |
| 13 | 17.950 | 136 | 34 | 0.001 |
| 14 | 18.571 | 19167 | 3321 | 0.148 |
| Total | | 12989254 | 1875204 | 100.000 |

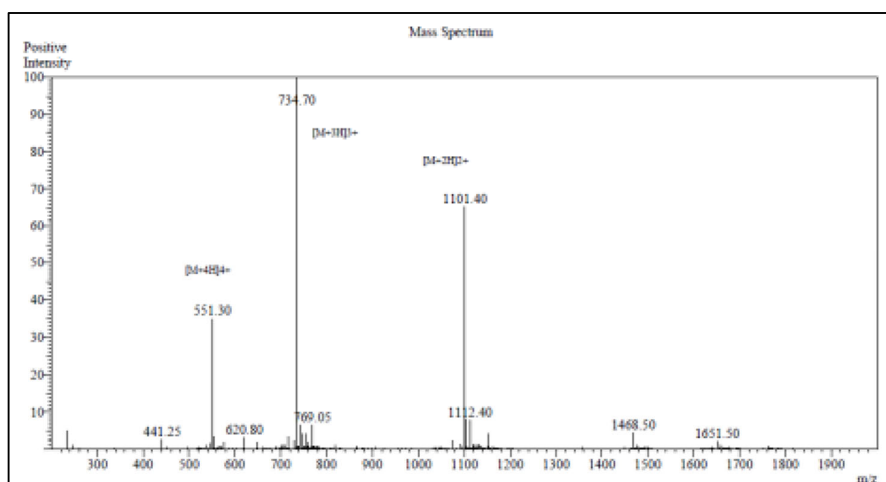


Figure S2. Mass spectrum of peptide KP_397(50-68) detected at m/z $[M+2H]^{2+}$ 1101.04, $[M+3H]^{3+}$ 734.70, and $[M+4H]^{4+}$ 551.30 theoretical molecular weight 2201.58 Da and observed molecular weight 2201.10 Da). Sample was dissolved in 50% methanol (v/v), analysis was carried out by direct infusion using electrospray ionization in positive mode (Nebulizing Gas Flow: 1.5L/min, Drying Gas Flow :5 L/min, T. Flow :0.2 ml/min, B. conc :50%H₂O/50%MeOH, CDL Temp: 250°C, and Block Temp:200°C).