

**Table. S1** Optimization results of experimental parameters of the AgPd NPs-based LFIA: concentration specific value of CL, TL1 and TL2.

Number	CL	TL1	TL2
1	0.5 mg/mL	1 mg/mL	-
2	0.5 mg/mL	2 mg/mL	-
3	0.5 mg/mL	4 mg/mL	-
4	1 mg/mL	1 mg/mL	-
5	1 mg/mL	2 mg/mL	-
6	1 mg/mL	4 mg/mL	-
7	2 mg/mL	1 mg/mL	-
8	2 mg/mL	2 mg/mL	-
9	2 mg/mL	4 mg/mL	-
10	0.5 mg/mL	-	0.4 mg/mL
11	0.5 mg/mL	-	0.6 mg/mL
12	0.5 mg/mL	-	0.8 mg/mL
13	1 mg/mL	-	0.4 mg/mL
14	1 mg/mL	-	0.6 mg/mL
15	1 mg/mL	-	0.8 mg/mL
16	2 mg/mL	-	0.4 mg/mL
17	2 mg/mL	-	0.6 mg/mL
18	2 mg/mL	-	0.8 mg/mL