

ESM. 1 The OD_{max} and IC_{50} at different concentrations of coating antigen and antibody dilution.

A					
Concentrations of AM-Ab (ng/mL)	Concentrations of AM coating antigen (μg/well)				
	0.005	0.01	0.1	0.3	0.5
290.6	1.34	1.53	1.83	2.03	2.34
145.3	0.78	0.98	1.28	1.19	1.38
72.7	0.43	0.56	0.71	0.64	0.76
36.4	0.25	0.30	0.43	0.42	0.46

B			
Coating antigen (μg/well)	Concentration of Antibody (ng/mL)	OD_{max}	IC_{50}
0.01	145.3	0.98	4.2
0.1	145.3	1.28	10.6
0.3	145.3	1.19	14.3

ESM. 2 Results of optimization of diluted times for coating antigen and second antibody (Dilution times
T line/C line: A: 10/20; B: 20/40; C: 40/60; D: 40/40; E: 60/60)



ESM. 3 Cross-reactivity of ic-ELISA with AM analogues and other drugs

Analyte	<i>IC</i> ₅₀ (µg/L)	Cross-reactivity (%)
AM	10	100
Adamantane	>1000	0.001
Rimantadine	>10	42
Chloroadamantane	>1000	0.001
Enrofloxacin	>1000	0.001
Chloramphenicol	>1000	0.001

ESM. 4 The comparison of various immunoassay method for AM detection

Methods	Sensitivity	LOD	Recovery	Samples	Reference
SPR immunosuppression chip	4.0 ng/mL	1.3 ng/mL	80.2 - 102.9%	Pure milk, egg, chicken, duck	33
Quantum dot-based fluorescence nanosensor	3.1 - 27.9 μ mol /L	0.09 μ mol/L	--	Capsules	34
MBs-ELISA	0.64 - 8.4 ng/mL	0.18 ng/g	77.8% - 112%	Chicken	35
SERS immunosensor	0.01 - 10 ng/mL	0.005 ng/mL	74.76% - 89.34%	Chicken	36
Colorimetric immunossay	1.37 ng/mL	0.095 ng/mL	74% - 84%	Chicken	37
Ic-ELISA	1.0 - 80.0 μ g/L	4.2 μ g/L	85.2% - 115.6%	Chicken, duck, beef, egg	This work
GICG strip	--	10.0 μ g/L	--		