## **Supporting Information**

**Fig. S1.** Optimization of ICA strip. (a) Optimization of the amount of labeling mAb by NaCl aggregation method (b) mAb and coating antigen optimization; (c) Optimization of surfactants.

**Fig. S2.** Identification of negative sample by LC-MS/MS. (a) The detection results of CAN standard solution. (b) The detection results of OLM standard solution. (c) The detection results of IRB standard solution. (d) The detection results of negative herbal beverage sample.

**Table S1.** Reagents and their sources used for preparing immunogens and coating antigens, animal and cell experiments.

**Table S2.** Materials and their sources related to the preparation of ICA strips and other experiments.

Table S3. Cross-reaction results of the mAb 4G7.

Table S4. The results of stability for the ICA strip.



**Fig. S1.** Optimization of ICA strip. (a) Optimization of the amount of labeling mAb by NaCl aggregation method, the amounts above the 1.5mL tubes corresponding to their respective adding amount of labeling mAb in a 10% NaCl solution, 1μg means 1μg of labeling mAb was added and so on. (b) Optimization of antigen concentration and antibody labeling amount, A and B with 0.2 μg/mL of antigen concentration, C

and D with 0.8 µg/mL of antigen concentration, A and C with 5 µg of antibody labeling amount, B and D with 10 µg of antibody labeling amount; (b) Optimization of surfactants, E for 5 % PVP, F for 5% BSA, G for 5% Tween-20, H for 5% glucan, and 1 and 2 in (a) and (c) represent CAN added at concentrations of 0 ng/mL and 1 ng/mL, respectively.



**Fig. S2.** Identification of negative sample by LC-MS/MS. (a) The detection results of CAN standard solution. (b) The detection results of OLM standard solution. (c) The detection results of IRB standard solution. (d) The detection results of negative herbal beverage sample.

Reagent	Source		
Bovine serum albumin (BSA)	Sigma-Aldrich (St. Louis, MO, USA)		
ovalbumin (OVA)	Sigma-Aldrich (St. Louis, MO, USA)		
N-hydroxysuccinimide (NHS)	Sigma-Aldrich (St. Louis, MO, USA)		
1-ethyl-3-(3-dimethylaminopropyl)	Sigma-Aldrich (St. Louis, MO, USA)		
carbodiimide (EDC)			
Freund's complete adjuvant	Sigma-Aldrich (St. Louis, MO, USA)		
Freund's incomplete adjuvant	Sigma-Aldrich (St. Louis, MO, USA)		
RPMI-1640 cell culture medium	Gibco BRL (Paisley, UK)		
hypoxanthine-thymidine supplement	Gibco BRL (Paisley, UK)		
(HT)			
hypoxanthine-aminopterin-thymidine	Gibco BRL (Paisley, UK)		
supplement (HAT)			
fetal bovine serum	Gibco BRL (Paisley, UK)		
polyethylene glycol 1500	Gibco BRL (Paisley, UK)		

## Table S1 Reagent and Source

Material	Source		
CM4000 cutting modules	Gold Biotechnology Co. Ltd. (Shanghai,		
	China)		
Milli-Q Synthesis System	Millipore Co. (Bedford, MA, USA)		
TSR 3000 membrane strip reader	Bio-Dot (Irving, CA, USA)		
vortexer	Husi Analytical Instrument Factory Co.		
	Ltd. (Shanghai, China)		
absorbent pads (SX18)	Whatman-Xinhua Filter Paper Co.		
	(Hangzhou, China)		
fiberglass membranes (CB-SB08)	Whatman-Xinhua Filter Paper Co.		
	(Hangzhou, China)		
fiberglass conjugate pads (SAP-Z90)	Whatman-Xinhua Filter Paper Co.		
	(Hangzhou, China)		
nitrocellulose (NC) membranes	Whatman-Xinhua Filter Paper Co.		
(1UN14ER100025NT)	(Hangzhou, China)		
Polyvinyl chloride backing sheet	Shanghai Jieyi Biotechnology Co., Ltd.		
	(Shanghai, China)		

## **Table S2 Material and Source**



## **Table S3.** Cross-reaction results of the mAb 4G7.



Azilsartan

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Losartan

Valsartan



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	0 <sup>th</sup> day	4 <sup>th</sup> day	8 <sup>th</sup> day	14 <sup>th</sup> day
	T/C	T/C	T/C	T/C
l ng/mL	0.112	0.115	0.117	0.116
	0.105	0.113	0.115	0.109
	0.118	0.116	0.112	0.112
0 ng/mL	1.496	1.489	1.492	1.492
	1.500	1.492	1.493	1.491
	1.495	1.491	1.495	1.496

Table S4. The results of stability for the ICA strip.