

Figure S1 MS/MS spectra of metoprolol tartrate: (A) Q1 and (B) MS2.

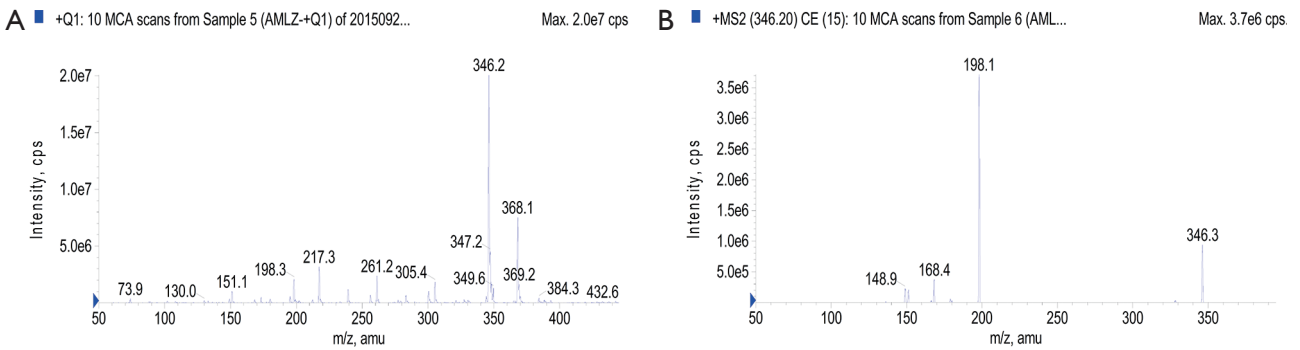


Figure S2 MS/MS spectra of omeprazole: (A) Q1 and (B) MS2.

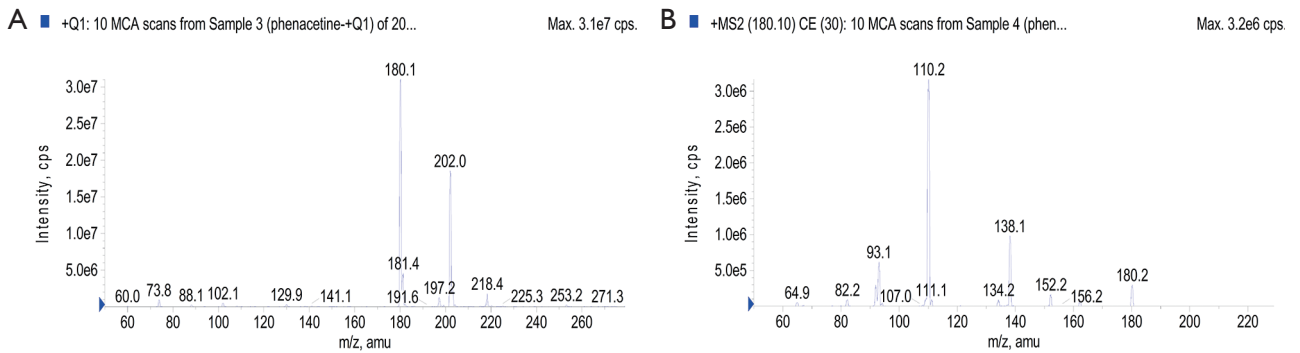


Figure S3 MS/MS spectra of phenacetin: (A) Q1 and (B) MS2.

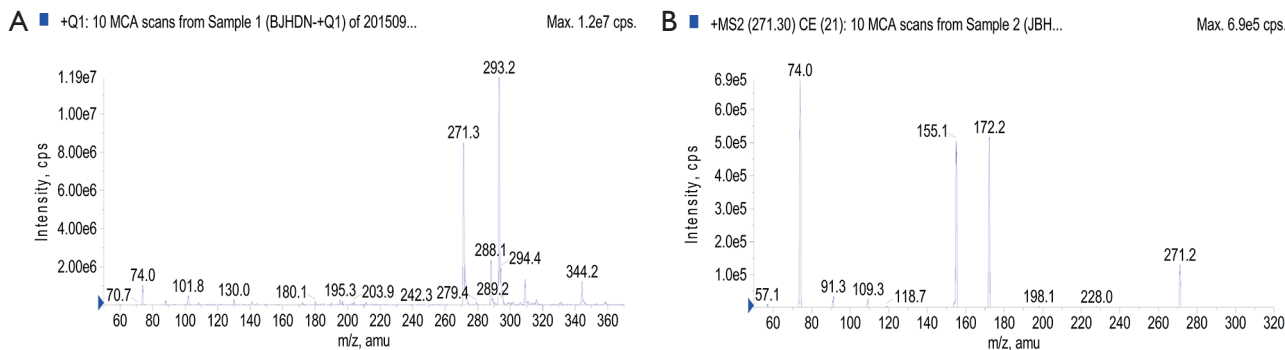


Figure S4 MS/MS spectra of tolbutamide: (A) Q1 and (B) MS2.

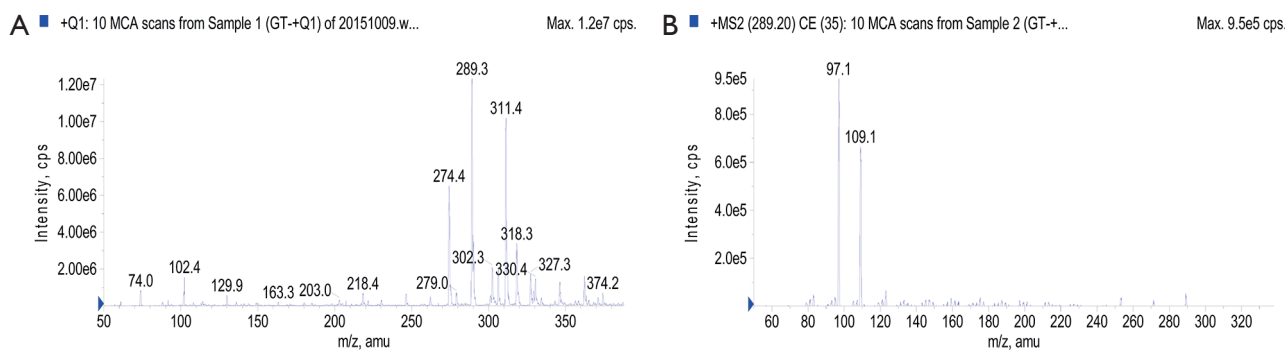


Figure S5 MS/MS spectra of testosterone: (A) Q1 and (B) MS2.

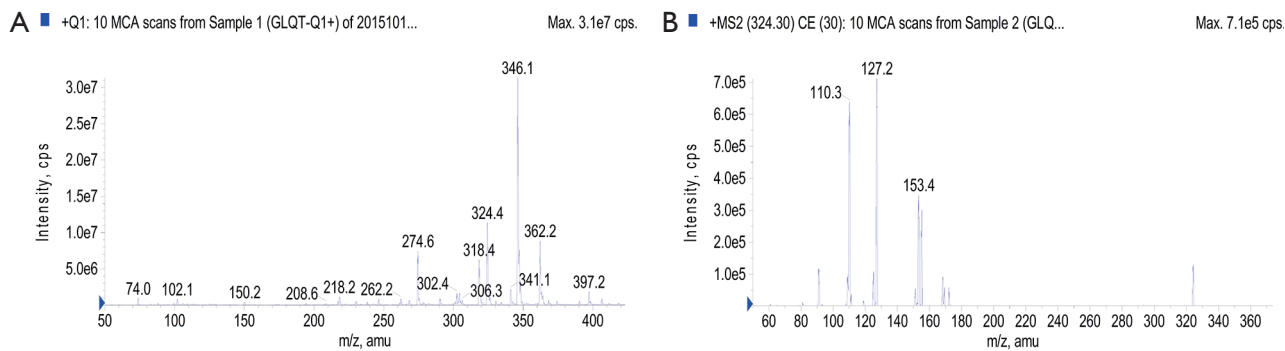


Figure S6 MS/MS spectra of gliclazide: (A) Q1 and (B) MS2.

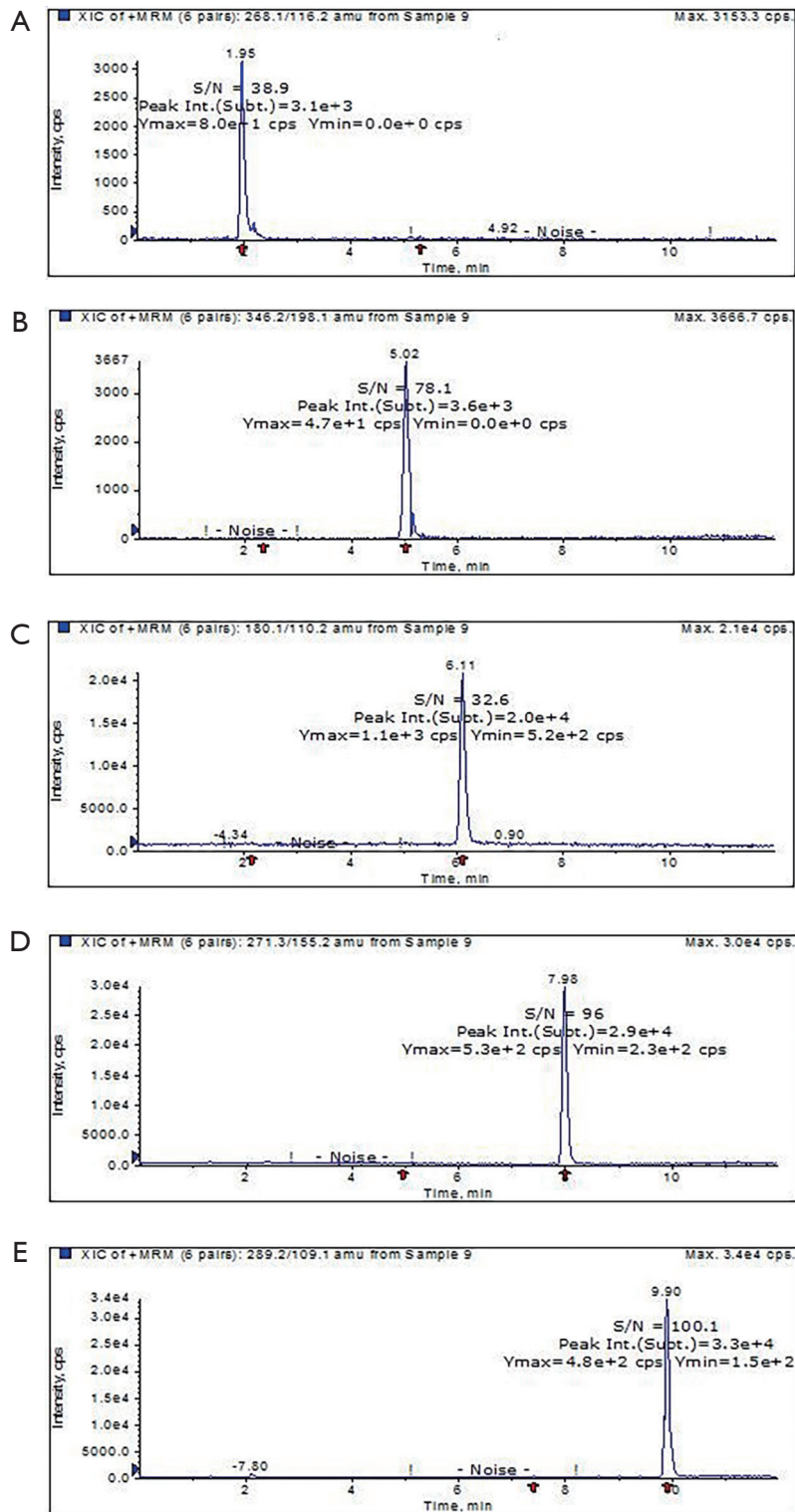


Figure S7 Lower limit of quantification of the five probe drugs in rat liver microsomes determined by liquid chromatography–tandem mass spectrometry: (A) metoprolol tartrate, (B) omeprazole, (C) phenacetin, (D) tolbutamide, and (E) testosterone.

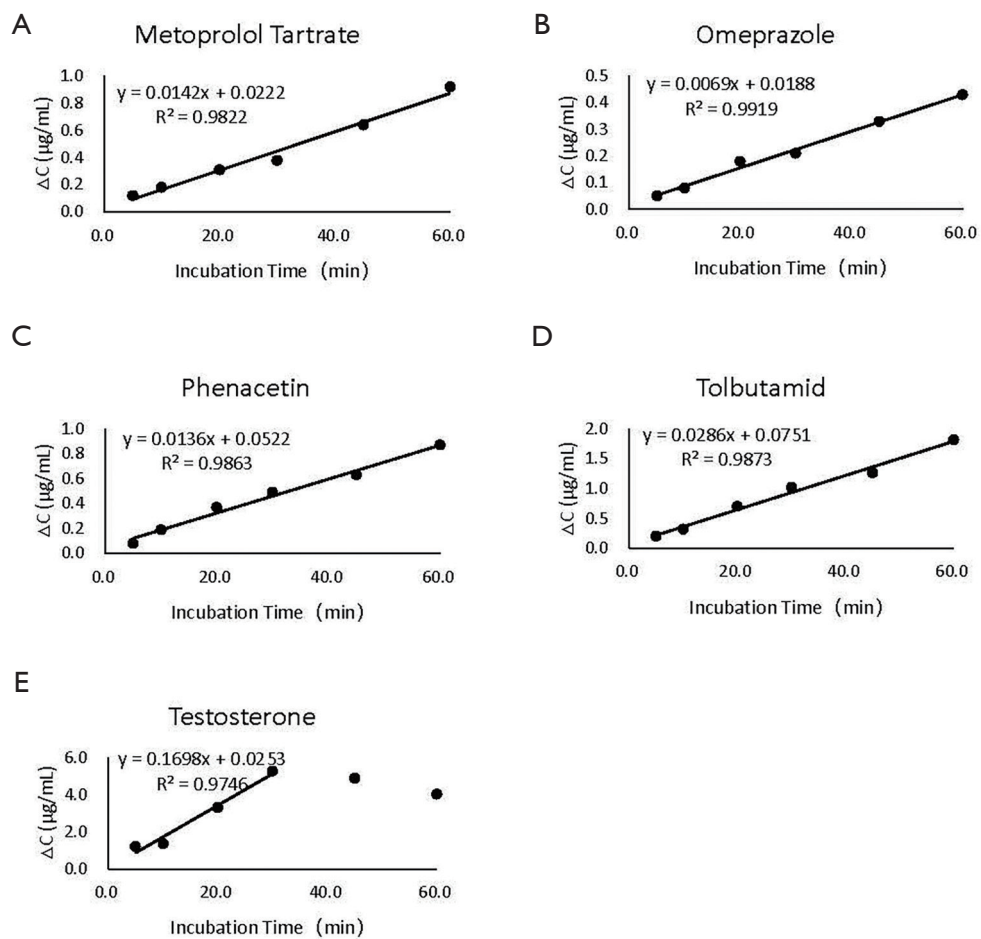


Figure S8 Linear relationship of the liver microsomal protein concentration versus the elimination of probe drugs: (A) metoprolol tartrate, (B) omeprazole, (C) phenacetin, (D) tolbutamide, and (E) testosterone.

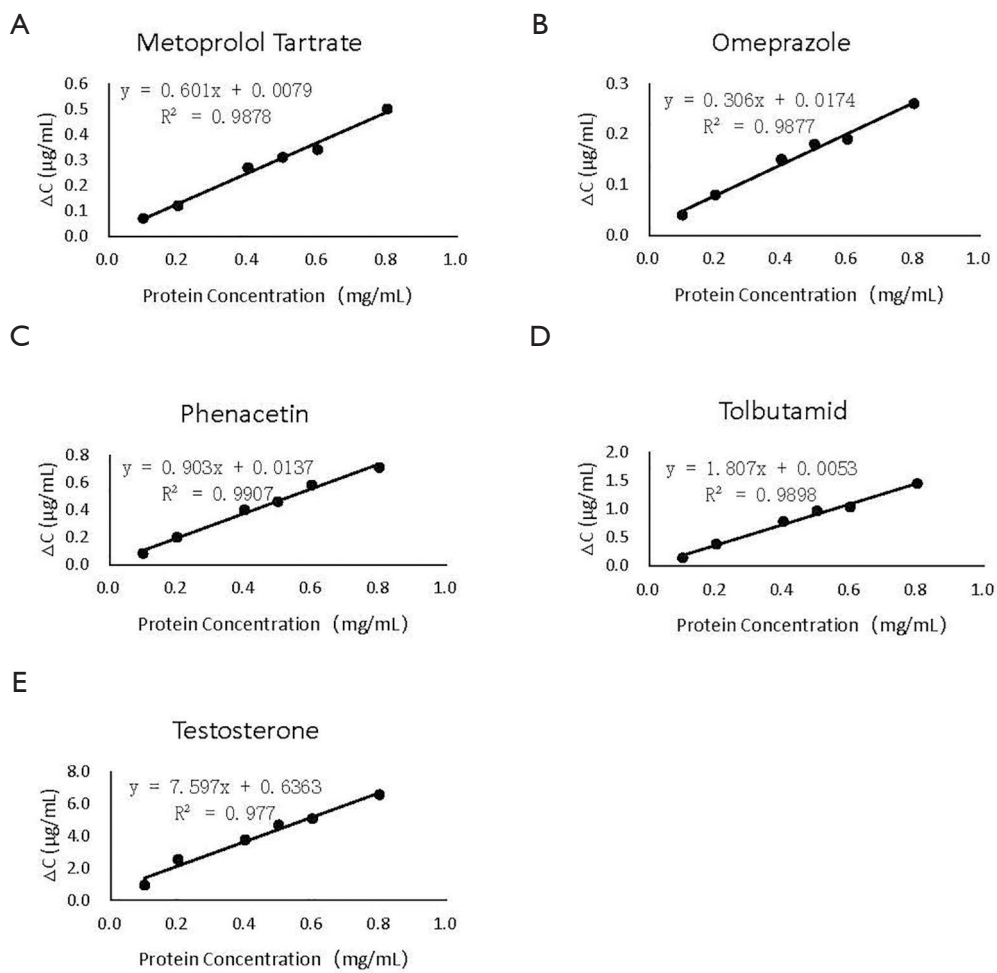


Figure S9 Linear relationship of the incubation time versus the elimination of probe drugs: (A) metoprolol tartrate, (B) omeprazole, (C) phenacetin, (D) tolbutamide, and (E) testosterone.

Table S1 Effects of four tea extracts at three concentrations on the CYP2D6 isozyme in rat liver microsomes

Group	Level ($\mu\text{g}\cdot\text{mL}^{-1}$)	CL_v ($\mu\text{g}\cdot\text{min}^{-1}\cdot\text{mg}^{-1}$)	ReA (%)	IR (%)
Control	0	20.54 \pm 4.44	100.00	0
Green tea	100	19.94 \pm 3.50	97.04	2.96
	600	19.33 \pm 4.92	100.79	-0.79
	1,000	21.15 \pm 3.30	102.96	-2.96
Tieguanyin tea	100	20.09 \pm 4.55	97.78	2.22
	600	21.31 \pm 2.47	103.70	-3.70
	1,000	19.02 \pm 7.33	92.59	7.41
Black tea	100	19.94 \pm 7.00	97.04	2.96
	600	18.72 \pm 6.45	91.11	8.89
	1,000	19.78 \pm 9.33	96.30	3.70
Pu'er tea	100	19.17 \pm 4.76	93.33	6.67
	600	20.24 \pm 3.45	98.52	1.48
	1,000	19.33 \pm 3.61	94.07	5.93

CL_v , rate of drug elimination; ReA, residual activity; IR, inhibitory rate.

Table S2 Effects of four tea extracts at three concentrations on the CYP2C19 isozyme in rat liver microsomes

Group	Level ($\mu\text{g}\cdot\text{mL}^{-1}$)	CL_v ($\mu\text{g}\cdot\text{min}^{-1}\cdot\text{mg}^{-1}$)	ReA (%)	IR (%)
Control	0	11.59 \pm 3.03	100.00	0
Green tea	100	11.28 \pm 5.40	97.35	2.65
	600	12.20 \pm 1.89	105.30	-5.30
	1,000	10.36 \pm 5.88	89.40	10.60
Tieguanyin tea	100	11.36 \pm 4.22	98.01	1.99
	600	10.44 \pm 3.37	90.07	9.93
	1,000	10.13 \pm 9.91	87.42	12.58
Black tea	100	11.82 \pm 5.95	101.99	-1.99
	600	10.75 \pm 9.90	92.72	7.28
	1,000	10.44 \pm 4.59	90.07	9.93
Pu'er tea	100	10.36 \pm 5.88	89.40	10.60
	600	11.44 \pm 4.19	98.68	1.32
	1,000	10.44 \pm 4.59	90.07	9.93

CL_v , rate of drug elimination; ReA, residual activity; IR, inhibitory rate.

Table S3 Effects of four tea extracts at three concentrations on the CYP1A2 isozyme in rat liver microsomes

Group	Level ($\mu\text{g}\cdot\text{mL}^{-1}$)	CL_v ($\mu\text{g}\cdot\text{min}^{-1}\cdot\text{mg}^{-1}$)	ReA (%)	IR (%)
Control	0	31.70 \pm 2.30	100.00	0
Green tea	100	27.64 \pm 5.76*	87.19	12.81
	600	19.48 \pm 7.54**	61.43	38.57
	1,000	31.70 \pm 2.30**	28.02	71.98
Tieguanyin tea	100	29.31 \pm 9.58	92.46	7.54
	600	31.02 \pm 7.54	97.86	2.14
	1,000	18.80 \pm 7.66**	59.30	40.70
Black tea	100	29.79 \pm 3.36	93.97	6.03
	600	24.85 \pm 6.37**	78.39	21.61
	1,000	28.64 \pm 5.18	90.33	9.67
Pu'er tea	100	28.99 \pm 7.26	91.46	8.54
	600	30.67 \pm 4.31	96.73	3.27
	1,000	28.08 \pm 8.94	88.57	11.43

*P<0.05, significant difference; **P<0.01, highly significant difference. CL_v , rate of drug elimination; ReA, residual activity; IR, inhibitory rate.

Table S4 Effects of four tea extracts at three concentrations on the CYP2C6 isozyme in rat liver microsomes

Group	Level ($\mu\text{g}\cdot\text{mL}^{-1}$)	CL_v ($\mu\text{g}\cdot\text{min}^{-1}\cdot\text{mg}^{-1}$)	ReA (%)	IR (%)
Control	0	69.33 \pm 2.96	100.00	0
Green tea	100	68.85 \pm 2.40	99.31	0.69
	600	66.03 \pm 3.02	95.23	4.77
	1,000	20.25 \pm 9.52**	29.20	70.80
Tieguanyin tea	100	66.45 \pm 5.09	95.84	4.16
	600	61.04 \pm 5.00	88.56	11.44
	1,000	64.40 \pm 7.00	92.89	7.11
Black tea	100	65.48 \pm 6.50	100.61	-0.61
	600	69.75 \pm 3.42	94.45	5.55
	1,000	68.07 \pm 5.69	98.18	1.82
Pu'er tea	100	67.53 \pm 3.54	97.40	2.60
	600	44.58 \pm 6.45**	64.30	35.70
	1,000	26.97 \pm 9.10**	38.91	61.09

**P<0.01, highly significant difference. CL_v , rate of drug elimination; ReA, residual activity; IR, inhibitory rate.

Table S5 Effects of four tea extracts at three concentrations on the CYP3A1/2 isozyme in rat liver microsomes

Group	Level ($\mu\text{g}\cdot\text{mL}^{-1}$)	CL_v ($\mu\text{g}\cdot\text{min}^{-1}\cdot\text{mg}^{-1}$)	ReA (%)	IR (%)
Control	0	347.45 \pm 3.22	100.00	0
Green tea	100	363.86 \pm 4.95	104.72	-4.72
	600	315.47 \pm 8.24	90.80	9.20
	1,000	312.90 \pm 6.27	90.06	9.94
Tieguanyin tea	100	363.86 \pm 4.95	95.17	4.83
	600	342.71 \pm 7.59	98.63	1.37
	1,000	352.58 \pm 8.25	101.48	-1.48
Black tea	100	319.06 \pm 9.04	91.83	8.17
	600	311.62 \pm 1.62	89.69	10.31
	1,000	324.25 \pm 6.97	93.32	6.68
Pu'er tea	100	316.24 \pm 7.14	91.02	8.98
	600	309.70 \pm 7.08	89.13	10.87
	1,000	315.53 \pm 6.77	90.81	9.19

CL_v , rate of drug elimination; ReA, residual activity; IR, inhibitory rate.