

Supporting Information to

Simultaneous Determination and Pharmacokinetic Study of Losartan, Losartan Carboxylic Acid, Ramipril, Ramiprilat, and Hydrochlorothiazide in Rat Plasma by a Liquid Chromatography/Tandem Mass Spectrometry Method**Ramkumar DUBEY, Manik GHOSH**

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Table of Contents

- Tab. S1.** Results of recovery and matrix effect of LOS, LCA, RAM, RPT, HCZ, and ISs in rat plasma.
- Tab. S2.** Stability of LOS, LCA, RAM, RPT, HCZ, and ISs after storage under indicated conditions.

Tab. S1. Results of recovery and matrix effect of LOS, LCA, RAM, RPT, HCZ, and ISs in rat plasma ($n = 6$)

Analyte	Nominal conc. (ng/mL)	Recovery (%)		Matrix effect (%)	
		Mean \pm SD	%RSD	Mean \pm SD	RSD (%)
LOS	3.00	75.33 \pm 4.11	8.12	93.22 \pm 3.50	6.55
	9.00	78.14 \pm 3.80	5.11	94.50 \pm 3.10	6.52
	600	82.15 \pm 3.52	6.35	94.25 \pm 4.20	3.99
	2700	88.88 \pm 6.50	5.68	97.22 \pm 1.80	4.25
LCA	3.00	75.33 \pm 4.11	7.41	92.50 \pm 5.50	7.10
	9.00	72.21 \pm 5.50	6.22	93.33 \pm 3.80	6.41
	600	81.23 \pm 4.21	3.85	93.31 \pm 3.42	5.27
	2700	84.23 \pm 3.55	4.11	95.54 \pm 2.21	4.51
RAM	0.1	81.27 \pm 4.21	6.23	98.15 \pm 2.03	3.30
	0.3	87.15 \pm 4.20	8.51	98.14 \pm 2.99	7.95
	15	87.25 \pm 3.20	7.99	99.41 \pm 4.50	8.80
	180	90.10 \pm 2.14	6.25	97.58 \pm 2.31	5.21
RPT	0.1	80.99 \pm 2.65	5.66	95.21 \pm 3.65	6.40
	0.3	84.22 \pm 3.41	6.10	94.21 \pm 3.80	3.80
	15	81.89 \pm 6.20	3.30	91.38 \pm 4.80	6.10
	180	86.97 \pm 3.30	3.56	99.64 \pm 3.14	4.60
HCZ	1	89.65 \pm 3.50	4.50	90.14 \pm 4.86	5.60
	3	86.35 \pm 5.14	5.26	88.99 \pm 6.20	4.21
	90	88.42 \pm 3.80	3.27	92.16 \pm 3.88	6.32
	1200	90.50 \pm 4.20	3.80	91.45 \pm 4.50	3.99
IS (IBS)	100	88.20 \pm 6.20	2.97	99.32 \pm 2.89	4.51
IS(MET)	100	90.34 \pm 5.35	3.45	98.45 \pm 3.80	6.42

Tab. S2. Stability of LOS, LCA, RAM, RPT, HCZ, and ISs after storage under indicated conditions (n=3); Concentrations in ng/mL (\pm SD).

Analyte	Nominal Conc.	Benchtop stability at 24°C for 12 h		Long-term stability at -80°C (90 d)		Autosampler stability at 4°C (24 h)		Freeze-thaw stability (from -80°C to 24°C)		Stock solution stability 4-8°C (7 d)	
		Conc. Found	CV (%)	Conc. Found	CV (%)	Conc. Found	CV (%)	Conc. Found	CV (%)	Conc. Found	CV (%)
LOS	9	9 \pm 0.32	3.99	8.55 \pm 1.40	5.55	9 \pm 0.85	3.69	9 \pm 0.20	4.20	9 \pm 1.10	2.87
	600	594 \pm 3.80	5.99	589.99 \pm 3.66	3.60	595.66 \pm 3.15	4.60	589.48 \pm 4.88	6.88	591.55 \pm 6.10	6.33
	2700	2686 \pm 6.25	4.10	2614.00 \pm 8.82	4.88	2688 \pm 6.80	3.17	2681.74 \pm 5.50	3.81	2691.22 \pm 7.40	5.55
LCA	9	8.70 \pm 0.25	3.84	8.39 \pm 1.98	6.99	8.80 \pm 0.15	3.65	8.41 \pm 0.41	4.47	8.88 \pm 0.18	4.96
	600	590.10 \pm 4.71	6.89	583.41 \pm 4.87	5.84	592 \pm 2.88	3.41	584.32 \pm 3.43	6.18	589.14 \pm 4.79	5.57
	2700	2681.50 \pm 8.28	3.89	2678.33 \pm 9.28	4.14	2685.20 \pm 5.0	4.47	2683.12 \pm 9.84	5.14	2684.90 \pm 7.33	3.10
LCA	9	8.70 \pm 0.25	3.84	8.39 \pm 1.98	6.99	8.80 \pm 0.15	3.65	8.41 \pm 0.41	4.47	8.88 \pm 0.18	4.96
	600	590.10 \pm 4.71	6.89	583.41 \pm 4.87	5.84	592 \pm 2.88	3.41	584.32 \pm 3.43	6.18	589.14 \pm 4.79	5.57
	2700	2681.50 \pm 8.28	3.89	2678.33 \pm 9.28	4.14	2685.20 \pm 5.0	4.47	2683.12 \pm 9.84	5.14	2684.90 \pm 7.33	3.10
RAM	0.3	0.30 \pm 1.14	3.88	0.30 \pm 1.44	3.33	0.30 \pm 1.01	5.55	0.30 \pm 1.24	5.65	0.30 \pm 0.98	4.10
	15	14.15 \pm 3.25	4.19	13.95 \pm 1.14	4.23	14.85 \pm 2.50	6.66	14.15 \pm 1.50	4.14	14.23 \pm 3.66	3.89
	180	174.89 \pm 6.80	8.80	173.14 \pm 5.55	3.74	175.00 \pm 3.50	6.45	175.99 \pm 4.20	3.11	176.10 \pm 4.44	6.82
RPT	0.3	0.30 \pm 1.18	4.19	0.30 \pm 1.80	4.10	0.30 \pm 1.21	4.20	0.30 \pm 1.80	3.99	0.30 \pm 1.90	4.40
	15	14.09 \pm 2.14	5.55	13.88 \pm 1.17	6.41	14.20 \pm 0.80	3.87	14.14 \pm 0.40	4.23	14.22 \pm 1.18	3.10
	180	174.15 \pm 6.20	4.88	172 \pm 6.77	4.77	175.55 \pm 8.89	3.77	173.29 \pm 4.30	5.71	175.10 \pm 8.51	7.05
HCZ	3	2.89 \pm 1.10	6.88	2.80 \pm 0.89	5.26	2.89 \pm 1.28	5.32	2.84 \pm 0.57	4.68	2.86 \pm 0.88	6.66
	90	86.99 \pm 3.36	4.41	85.41 \pm 5.17	4.48	87.10 \pm 3.28	4.89	85.12 \pm 4.99	3.66	87.01 \pm 2.84	4.68
	1200	1189.88 \pm 8.80	6.66	1180.36 \pm 12.45	6.30	1191.89 \pm 8.50	5.11	1183.66 \pm 8.50	4.48	1189.10 \pm 10.54	5.02
IS (IBS)	180	176.75 \pm 8.11	3.80	173 \pm 6.45	4.85	175.06 \pm 4.08	3.66	174.11 \pm 6.03	4.45	176.66 \pm 5.04	5.20
IS (RPT)	180	175.85 \pm 4.88	4.10	173.90 \pm 4.45	3.37	176.11 \pm 4.98	6.66	175.11 \pm 5.10	4.11	175.38 \pm 3.54	5.14