

Measurement example of LRG in serum/plasma/urine samples.

Dilution of serum or plasma sample

5ul of serum/plasma

↓

Add to 245ul of Dilution buffer (50 x dilution)

↓

5ul of diluted serum/plasma

↓

Add to 495ul of Dilution buffer (100x dilution)

↓

5000x diluted serum/plasma

Dilution of urine/CSF samples

25ul of urine/CSF

↓

Add to 100ul of Dilution buffer (5 x dilution)

↓

Serial 2x – 80x dilution(10x – 160x dilution)

↓

Calculate average value

	Serum LRG (ug/ml)	Plasma LRG (ug/ml)
NO.11	15.63	16.35
NO.12	40.53	40.03
NO.13	29.87	27.90
NO.14	10.62	9.89
NO.15	15.06	19.05
NO.16	20.75	17.49
NO.17	72.30	58.81
NO.18	22.70	17.85
NO.19	18.29	18.08
NO.20	19.35	16.14
NO.21	40.15	24.41
NO.22	39.67	31.76
NO.23	12.25	9.77
NO.24	28.17	23.00
NO.25	24.79	19.94
NO.26	29.33	22.68
NO.27	23.87	20.48
NO.28	27.73	20.54
NO.29	20.60	16.63

	LRG (ng/ml)
Urine-♂	268.83
Urine-♀	339.92
Urine pool	112.51
CSF-1	336.16
CSF-2	155.80
CSF-3	465.53
CSF-4	74.18
CSF-5	40.48
CSF-6	2655.16

Between-run reproducibility.

	Sample No	day1	day2	day3	day4	day5	day6	day7	day8	average	SD	CV
Serum (ug/ml)	11	20.46	21.02	14.44	15.45	17.79	16.7	18.05	19.08	17.87	2.30	12.9%
	16	23.09	20.97	13.43	13.54	18.57	17.15	19.49	18.07	18.04	3.35	18.6%
	17	60.62	56.56	42.23	42.68	45.07	44.19	57.83	56.87	50.76	7.85	15.5%
Plasma (ug/ml)	11	13.5	12.51	10.23	9.84	16.26	15.33	12.73	12.61	12.88	2.21	17.2%
	16	17.49	13.69	8.98	9.88	14.95	12.72	13.69	13.19	13.07	2.70	20.6%
	17	43.19	37.66	26.82	26.06	48.94	43.65	47.32	48.54	40.27	9.28	23.0%
Urine (ng/ml)	♀	293.88	281.1	225.87	210.57	338.17	345.73	303.37	340.1	292.35	51.53	17.6%
	♂	597.97	640.71	610.87	605.67	584.55	627.31	558.68	601.79	603.44	25.11	4.2%
	pool	153.98	148.59	133.85	119.73	147.91	138.94	165.55	155.21	145.47	14.27	9.8%

Serum/plasma samples were x5000 diluted.  
Urine samples were x10 diluted.