

Supplementary Materials: Analytical Criticalities Associated to Different Immunological Methods for Serum Free Light Chain Detection in Plasma Cell Dyscrasias: A Description of Particular Clinical Cases

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Table S1. Clinical characteristic of patients included in the study.

Parameter	Number of patients
Gender	
Female	34/85
Male	51/85
Age	
Median (years)	67
>66	45
Type of myeloma	
MM	58/85
MGUS	27/85

MM: multiple myeloma; MGUS: monoclonal gammopathy of undetermined significance.

Table S2. Results of FLC κ/λ measurement and the calculated κ/λ ratio using Freelite™ and N-Latex assays.

Number	Sex	Age	N-Latex FLC κ mg/L (6.7–22.4)	N-Latex FLC λ mg/L (8.3–27)	N-Latex κ/λ FLC (0.31–1.56)	Freelite FLC κ mg/L (3.30–19.4)	Freelite FLC λ mg/L (5.71–26.3)	Freelite κ/λ FLC (0.26–1.65)
1	M	77	20.2	91	0.22	17.3	248.64	0.07
2	F	96	15	110	0.14	10.14	561.41	0.02
3	F	78	423	48.4	8.74	465.62	4.51	103.24
4	M	85	92.8	48.4	1.92	50.02	26.13	1.91
5	M	86	344	74.6	4.61	158.18	60.31	2.62
6	M	78	1100	7.99	137.67	1434.2	1.08	1327.96
7	M	73	15.5	74.7	0.21	9.82	41.43	0.24
8	F	67	7.58	1200	0.01	5.35	774.69	0.01
9	M	61	76.3	22.2	3.44	41.39	10.71	3.86
10	F	66	1530	2.98	513.42	2797	1.2	2330.83
11	F	68	51.3	13.6	3.77	41.31	8.87	4.66
12	M	67	58	9.05	6.41	31.49	1.63	19.32
13	M	56	10.7	969	0.01	7.88	80.63	0.10
14	M	57	9.12	1110	0.01	6.86	66.33	0.10
15	F	55	193	8.38	23.03	681.6	0.87	783.45
16	F	75	329	6.2	53.06	588	1.32	445.45
17	F	62	50.6	11.4	4.44	21.21	2.03	10.45
18	M	61	61.7	27.7	2.23	115.5	19	6.08
19	F	72	240	8.2	29.27	612.5	0.98	625.00

20	M	72	34.8	35.1	0.99	27.75	23.24	1.19
21	M	71	399	17.7	22.54	536.9	2.5	214.76
22	M	81	31.5	51.4	0.61	23.54	49.1	0.48
23	M	55	43.5	7.38	5.89	15.96	0.96	16.63
24	F	53	292	8.31	35.14	610	1.25	488.00
25	M	65	11.9	15.6	0.76	7.8	16.99	0.46
26	F	54	1550	6.34	244.48	1997.2	0.85	2349.65
27	F	63	48.4	17.6	2.75	40.05	8.04	4.98
28	F	73	10.1	58.5	0.17	8.57	552	0.02
29	M	69	22	69.1	0.32	15.9	30.78	0.52
30	F	70	967	22	43.95	1972	9.71	203.09
31	F	55	102	11.7	8.72	155.66	1.48	105.18
32	F	75	51.5	59.7	0.86	34.56	31.6	1.09
33	F	66	316	8.04	39.30	403.88	0.86	469.63
34	M	59	18	57.4	0.31	14.75	45.64	0.32
35	M	56	217	18.1	11.99	455.3	1.65	275.94
36	M	65	8.41	213	0.04	6.81	144.26	0.05
37	M	61	34.4	10.6	3.25	27.31	0.93	29.37
38	M	65	14.6	14.8	0.99	10.99	11.85	0.93
39	M	57	16.8	158	0.11	10.26	151.84	0.07
40	M	69	28.3	121	0.23	20.52	297.76	0.07
41	F	83	23.6	249	0.09	19.3	208.32	0.09
42	M	51	18.2	48.9	0.37	12.86	28.4	0.45
43	M	57	11.1	300	0.04	8.36	142.6	0.06
44	M	64	347	13.9	24.96	2044	7.34	278.47
45	F	34	8.2	15.2	0.54	1.92	18.27	0.1
46	M	63	30.2	12.1	2.50	30.08	9.38	3.21
47	M	68	20.7	34.2	0.61	14.78	18.26	0.81
48	M	57	22.6	2780	0.01	13.27	1460.6	0.01
49	M	80	115	24	4.79	159.75	12.66	12.62
50	M	77	47.8	60.1	0.80	55.09	59	0.93
51	M	77	9.48	1190	0.01	4.64	2673	0.001
52	F	36	13.1	7.57	1.73	10.8	1.59	6.79
53	M	78	52.3	51.9	1.01	73.53	20.89	3.52
54	M	67	32.6	6.22	5.24	219.75	7.61	28.88
55	M	67	15.3	135	0.11	11.93	139.34	0.09
56	M	66	29.5	18.3	1.61	19.94	10.81	1.84
57	M	84	11.8	36.4	0.32	8.32	26.9	0.31
58	F	69	11.4	233	0.05	9.05	85.72	0.11
59	F	46	16.4	23	0.71	9.14	818.8	0.01
60	F	55	11.2	262	0.04	7.14	1009.1	0.01
61	F	77	15.4	29.7	0.52	11.95	19.77	0.60
62	F	71	9.63	9.55	1.01	6.77	7.8	0.87
63	M	76	26.4	172	0.15	20.19	85.15	0.24
64	M	78	26.4	32	0.83	21.91	19.15	1.14
65	F	48	52.5	12.6	4.17	129.11	0.94	137.35
66	M	65	123	5.1	24.12	177.39	1.22	145.40
67	F	64	17.3	30.3	0.57	17.76	16.28	1.09
68	F	74	29.3	73.6	0.40	18.92	33.28	0.57
69	M	59	76.9	17.5	4.39	47.74	7.17	6.66
70	M	78	91.1	155	0.59	102.12	69.5	1.47

71	F	62	20.6	14.3	1.44	17.17	11.74	1.46
72	M	53	13.1	12.2	1.07	10.09	10.88	0.93
73	M	70	2690	18.9	142.33	4100	2.52	1626.98
74	M	78	11.4	19.6	0.58	10.16	11.18	0.91
75	F	75	28.3	31	0.91	19.41	22.13	0.88
76	F	74	225	23	9.78	439.66	9.6	45.80
77	M	64	60	24.5	2.45	38.24	11.37	3.36
78	M	59	6.7	19	0.35	2.06	69.7	0.03
79	M	57	6.51	12.5	0.52	4.99	9.05	0.55
80	M	66	34.8	40.5	0.86	26.05	17.67	1.47
81	M	67	31.6	21.1	1.50	36.79	19.01	1.94
82	F	67	16.5	16.3	1.01	9.03	9.49	0.95
83	F	65	271	15.5	17.48	52.35	1.09	48.03
84	F	71	68.3	8.92	7.66	102.38	1.51	67.80
85	M	76	22.6	28.5	0.79	14.81	18.88	0.78

Table S3. Median of FLC κ/λ measurement and the calculated κ/λ ratio using Freelite™ and N-Latex assays.

Patient	N-Latex FLC κ mg/L (6.7–22.4)	N-Latex FLC λ mg/L (8.3–27)	N-Latex κ/λ FLC (0.31–1.56)	Freelite FLC κ mg/L (3.30–19.4)	Freelite FLC λ mg/L (5.71–26.3)	Freelite κ/λ FLC (0.26–1.65)
MM + MGUS	30.2	23	1.01	21.21	16.28	1.19
MM	41.6	23	1.47	29.62	15.165	1.925
MGUS	18	24.5	0.86	14.78	16.28	0.93

Table S4. Comparison method between Freelite™ and N-Latex assays.

Patient	Number	Range N-Latex FLC mg/L	Range Freelite FLC mg/L	Slope Passing-Bablok. 95% CI	Intercept Passing-Bablok. 95% CI
MM + MGUS			85		
FLC K	85	6.51–2690	1.92–4100	0.77 (0.70–0.90)	6.11 (4.61–7.88)
FLC λ	85	2.98–2780	0.85–2673	1.34 (1.12–1.55)	6.41 (4.38–7.22)
κ/λ Ratio	85	0.01–513.42	0.001–2349	0.23 (0.17–0.35)	0.23 (0.14–0.34)
MM			58		
FLC K	58	6.51–2690	1.92–4100	0.75 (0.65–0.83)	7.52 (5.76–9.95)
FLC λ	58	2.98–2780	0.85–2673	1.18 (0.98–1.54)	7.08 (5.15–9.31)
κ/λ Ratio	58	0.01–513.42	0.001–2349	0.20 (0.11–0.26)	0.24 (0.14–0.33)
MGUS			27		
FLC K	27	8.41–292	6.7–610	1.15 (0.81–1.55)	1.44 (–2.37–5.58)
FLC λ	27	6.2–1110	0.94–552	1.60 (1.26–2.16)	1.12 (–8.17–5.56)
κ/λ Ratio	27	0.01–35.14	0.02–488	0.63 (0.25–0.80)	0.14 (–0.01–0.53)

CI 95% confidence interval.