

**Supplemental Table 1.** Accuracy studies for LC-MS/MS validated by participating in Endocrinology Proficiency Testing Program of New York State Department of Health

Analyte	Sample	Your response	Target	Acceptable Range	D/Dmax	Score
25(OH)D <sub>2</sub> (nmol/L)	E01	<5.0	6.3	0–14.0	—	100
	E02	<5.0	6.8	0–14.3	—	100
	E03	31.5	29	21.3–36.5	0.33	100
	E04	61.5	50.8	38.0–63.8	0.83	100
	E05	92.5	76.5	57.3–95.8	0.83	100
25(OH)D <sub>3</sub> (nmol/L)	E01	75	91.5	68.5–114.5	–0.72	100
	E02	100.5	94.8	71.0–118.5	0.24	100
	E03	114.8	104.8	78.5–131.0	0.38	100
	E04	66.8	61	45.8–76.3	0.38	100
	E05	95.3	88.3	66.3–110.5	0.31	100
Total 25(OH)D (nmol/L)	E01	75	92.5	69.3–115.8	–0.75	100
	E02	100.5	96.8	72.5–121.0	0.15	100
	E03	146.3	134	100.3–167.5	0.37	10
	E04	128.3	112.8	84.3–141.0	0.55	100
	E05	187.8	167.5	125.5–209.5	0.48	100