

Table S1. LC-HRMS method validation results for accuracy and precision of 24,25(OH)₂D₃, vitamin D₂ and vitamin D₃ (N.D. = not detected)

Validation standard	Expected Conc. [ng/mL]	Detected mean [ng/mL]	Accuracy [%]	Intra-batch precision [%]	Inter-batch precision [%]
24,25(OH) ₂ D ₃					
0	0.0	n.d.			
1	5.0	3.63 ^a 4.71 ^b	73	15.4	22.1
2	50.0	47.15 ^a 52.47 ^b	94	3.9	9.9
3	100.0	92.20 ^a 103.13 ^b	92	3.3	9.5
Vitamin D ₂					
0	0.0	n.d.			
1	7.69	8.62 ^a 8.41 ^b	112	4.8	7.1
2	52.69	54.14 ^a 56.18 ^b	103	4.1	5.8
3	102.69	101.49 ^a 111.41 ^b	99	3.6	6.0
Vitamin D ₃					
0	0.0	n.d.			
1	23.01	25.91 ^a 24.34 ^b	113	4.9	10.2
2	68.01	78.44 ^a 80.97 ^b	115	3.8	3.4
3	118.01	126.40 ^a 138.51 ^b	107	3.9	5.9

^a mean of n=5, double injection

^b mean of n=3, double injection