

Table S1. Compounds-dependent ESI-MS/MS parameters for each vitamin.

Compounds	MRM transition 1	Cone	Collision	MRM transition 2	Cone	CE
Retinol	269.3-119.1	20	20	269.3-93	20	20
α -tocopherol	431.5-137.05	31	20	431.5-109	30	45
25-(OH)-D3	383.45-257.2	30	15	401.2-383.3	8	6
25-(OH)-D2	395.4-119.1	50	25	413.3-395.3	11	7
3-epi-25-(OH)-D3	383.44-257.21	30	15	401.1-383.4	9	8
3-epi-25-(OH)-D2	413.31-395.3	11	7	413.31-269.1	11	7
Retinol-d5	274.3-122.1	18	20	NA	NA	NA
α -tocopherol-d6	437.5-115.1	30	45	NA	NA	NA
25-(OH)-D3-d6	407.2-389.3	8	6	NA	NA	NA
25-(OH)-D2-d3	416.3-398.3	11	7	NA	NA	NA
3-epi-25-(OH)-D3-d3	404.1-386.4	9	8	NA	NA	NA