**Supplementary Digital Content 2.** Mass spectrometer parameter settings and multiple reaction monitoring (MRM) precursor to product ion transitions for 25[OH]D3/D2 and 24,25[OH]2D3/D2.

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| **Parameter** | **Setting** |
| Ion source | Electrospray positive |
| Capillary voltage | 3.0 kV |
| Cone energy | 35 kV |
| Collision energy | 20kV |
| Nebuliser gas flow rate | 30 L/hr |
| Desolvation gas flow rate | 850 L/hr |
| Source temperature | 85°C |
| Desolvation gas temperature | 250°C |
| **m/z transitions** |
| 25[OH]D3 | 607>297 |
| 25[OH]D2 | 619>297 |
| 24,25[OH]2D3 | 623>280 |
| 24,25[OH]2D2 | 635>280 |
| 25[OH]D3-[2H6] | 613>297 |
| 24R,25[OH]2D3-[2H6] | 626>316 |