

Supplemental material

Equations for calculating serum free 25(OH)D, albumin bound 25(OH)D and bio-available 25(OH)D.

Total 25(OH)D in nmol/L. Albumin in g/L. DBP in $\mu\text{mol/L}$.

Calculated free 25(OH)D (pmol/L) = total 25(OH)D / (((binding coefficient albumin x ([albumin] / 66437)) + (binding coefficient DBP x ([DBP] / 1×10^6)) x 1000),

Calculated albumin bound 25(OH)D (nmol/L) = ([free 25(OH)D] x binding coefficient albumin x [albumin/66437]) / 1000, and

Calculated bio-available 25(OH)D (nmol/L) = free 25(OH)D + Albumin bound 25(OH)D.