

25-hydroxyvitamin D (25[OH]D) was measured in serum samples using a 2-step radioimmunoassay (25-Hydroxyvitamin D 125I RIA Kit, DiaSorin, Stillwater, Minn., USA). The inter-assay coefficient of variation for 25[OH]D was 6.78% for log-transformed values.

Intact PTH was measured in EDTA plasma with a two-site immunoradiometric assay kit (N-tact PTHSP, DiaSorin, Stillwater, Minn., USA). The inter-assay coefficient of variation for PTH was 8.6%.

Total calcium was measured in serum samples with direct quantitative colorimetric determination using Stanbio Total Calcium LiquiColor Procedure No. 0500 (Stanbio Laboratory, Boerne, TX, USA). The inter-assay coefficient of variation was 2.2%.

Inorganic phosphorus was measured in serum samples with direct quantitative UV determination using Stanbio Phosphorus Liqui-UV Procedure No. 0830 (Stanbio Laboratory, Boerne, TX, USA). The inter-assay coefficient of variation for was 6.7%.