

**TABLE 2.** Laboratory investigation for men with low bone mass

---

**A. FIRST-LINE TESTS**

- CBC - ESR
- serum calcium and phosphorus
- serum creatinine
- serum albumin
- serum ALP and bALP
- serum SGOT, SGPT
- serum ferritin
- serum 25(OH) vitamin D3
- serum PTH
- serum testosterone
- serum TSH
- serum PSA
- protein electrophoresis of blood and urine
- 24-hour urine calcium and creatinine

**B. SECOND-LINE TESTS**

- 24-hour urine free cortisol
  - urine N-methylhistamine
  - serum IgA autoantibodies against transglutaminase
  - serum LH
  - serum prolactin
  - serum estradiol
  - serum SHBG
  - biochemical markers of bone metabolism
-