**Sampling:** 1 mL serum or heparin plasma.

| **Reference Interval:** | Assay with fluoride | percent inhibition |
|---|---|---|
| | Normal homozygous: | 40–60% |
| | Atypical homozygous: | 74–84% |
| | Atypical heterozygous: | 50–66% |
| | | |
| | Assay with dibucaine | percent inhibition |
| | Normal homozygous: | 80–88% |
| | Atypical homozygous: | 15–25% |
| | Atypical heterozygous: | 60–68% |

## Pyridinolines

**Synonyms:** Deoxypyridinoline, Hydroxylysylpyrolidine, Lysylpyroidine, Pyridinium Collagen Cross-Links, Pyridinoline Crosslinks

**Background:** Markers for bone matrix resorption and degeneration. As a bone resorption marker, values fall within 2-12 weeks during remodeling, during bone formation the marker fall within 3-6 month.

Elevated in osteoporosis, Paget disease, metastatic bone resorption, primary and secondary hyperparathyroidism, hyperthyroidism.

Decrease of cross links in hypothyroidism.

Also useful in assessment of patient s risk of fracture, therapy monitoring.

Limitation: Variation day by day up to 20%, affected by renal clearance.

**Sampling:** Urine, 5 mL, but a 24 h urine collection is preferred due to diurnal variation. Protect from light. Refrigerate. Freeze for storage longer than 2 days.

**Reference Interval:** Assay measures de(s)oxypyridinoline: 3.0-7.4 nmol/mmol creatinine



**Pyridoxal-5-Phosphate see** Vitamin B 6, Plasma or Serum

**Pyridoxine see** Vitamin B 6, Plasma or Serum

**Q Fever see** Coxiella burnetii

**Quick`s Value (Prothrombin Time) see** Prothrombin Time