

## C-Terminal telopeptide (CTX)

<b>Method:</b>	Enzyme Immunological Assay (ELISA)
<b>Kit Manufacturer:</b>	Immunodiagnostic Systems, Fountain Hills, AZ
<b>Description:</b>	The Serum CrossLaps® ELISA is based on two highly specific c monoclonal antibodies against the amino acid sequence of EKAHD-β-GGR, where the aspartic acid residue (D) is β-isomerized. In order to obtain a specific signal in the Serum CrossLaps® ELISA, two chains of EKAHD-β-GGR must be cross linked. Standards, control, or unknown serum samples are pipetted into the appropriate microtitre wells coated with streptavidin, followed by application of a mixture of a biotinylated antibody and a peroxidase conjugated antibody. Then, a complex between CrossLaps antigens, biotinylated antibody and peroxidase conjugated antibody is generated, and this complex binds to the streptavidin surface via the biotinylated antibody. Following the one step incubation at room temperature, the wells are emptied and washed. A chromogenic substrate is added and the color reaction is stopped with sulfuric acid. Finally, the absorbance is measured.

### Collection and Performance Characteristics

<b>Tube type:</b>	Preferred: SST Alternate: EDTA or Heparin
<b>Minimum Volume:</b>	0.4 mL
<b>Lowest Reportable Value:</b>	0.02 ng/mL
<b>Precision:</b>	Intra-assay variation is 5.2-6.8% Inter-assay variation is 5.6-7.4%
<b>Reference Range:</b>	Post-menopausal Women: 0.142 – 1.351 ng/mL Pre- menopausal Women: 0.112 – 0.738 ng/mL Men: 0.115 – 0.748 ng/mL