



For *In Vitro* Diagnostic Use

The MicroVue PYD EIA provides a quantitative measure of pyridinium crosslinks (Pyd and Dpd) as an indicator of type I collagen resorption, especially bone collagen. Pyd and Dpd are excreted unmetabolized in urine.

Format

- ELISA
- 96-well microplate with reagents sufficient to test 40 samples in duplicate
- Sample type: Urine
- Controls: High, low included

Species Reactivity

- Mouse, Rabbit, Guinea Pig, Rabbit, Pig, Dog, Sheep, Horse, Cynomolgus Macaque, Human
- Tissue culture of above species

Specimen – Urine

- First or second morning void ensures reproducible measurements
- Unaffected by diet – no fasting needed
- No special sample collection or handling requirements

Assay Steps

- Add 50 μ L of 1:10 diluted Standards, Controls, and samples
- Add 100 μ L cold Enzyme Conjugate
- Incubate 3 hours \pm 10 minutes at 2°C to 8°C
- Wash 3 times with 1X Wash Buffer
- Add 150 μ L room temperature Working Substrate Solution
- Incubate 60 \pm 5 minutes at 20°C to 28°C
- Add 100 μ L Stop Solution
- Correct for creatinine concentration
- Measure absorbance at 405 nm

Assay Performance

Method: ELISA

Analyte: Pyridinoline crosslinks

Specimen: Urine

Specimen Volume: Minimum of 50 μ L

Limit of Detection: 7.5 nM/L

Assay Range: 7.5-750 nM

Precision CVs (inter-assay): .9%-11.2%

Precision CVs (intra-assay): 6.6%-9.9%

Assay Time: Approx. 4 Hours

Specificity:

Free Dpd 100%

Free Pyd <1%

Pyd/Dpd peptides <2.5%

MicroVue PYD EIA – Cat. #8010

Also available:

Pyridinoline Controls (set of 4) – Cat. #4823

MicroVue Creatinine EIA – Cat. #8009

Pyd/Dpd HPLC Calibrator – Cat. #8004

INT-PYD Internal Standard – Cat. #8006

H-Pyd Antibody – Cat. #4805

Mouse Anti-Pyd Antibody – Cat. #4809

