



Serum PYD

For **Research Use Only**. Not for use in diagnostic procedures.

The MicroVue Serum PYD EIA provides a quantitative measure of the excretion of pyridinoline crosslinks (PYD) in serum.

Format

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

Species Reactivity

- Baboon, Cat, Cow, Dog, Guinea Pig, Horse, Human, Rhesus Macaque, Mouse, Rat
- No recognition of rabbit

Specimen

- Serum collected to avoid hemolysis
- Plasma has not been validated with any species

Assay Steps

- Spin serum in spinfilters (included) for 30 minutes
- Add 50 μ L Reagent 1 to plate
- Add 25 μ L Serum, diluted Standards, diluted Controls
- Add 75 μ L cold Pyridinoline antibody
- Incubate 18-24 hours at 2°C to 8°C
- Wash 3 times with 1X Wash Buffer
- Add 150 μ L Enzyme Conjugate
- Incubate 60 \pm 5 minutes at 20°C to 28°C
- Wash 3 times with 1X Wash Buffer
- Add 150 μ L Working Substrate Solution
- Incubate 40 \pm 5 minutes at 20°C to 28°C
- Add 100 μ L Stop Solution
- Measurement absorbance at 405 nm

Assay Performance

Method: Competitive

Analyte: Pyridinoline (PYD, LP)

Specimen: Serum

Specimen Volume: 25 μ L post-filtration

Limit of Detection: 0.4 nmol/L

Precision CVs (inter-assay): 8.7%-11.6%

Precision CVs (intra-assay): 6.3%-14.8%

Assay Time: Approx. 20-26 Hours

Specificity:

Free PYD 100%

Free DPD 0%

PYD/DPD peptides <2.5%

L-arginine 0.0004% (see Package Insert)