

MICROVUE™

Bone Health

Technical Data Sheet

MicroVuePYD

For *In Vitro* Diagnostic Use

MicroVue PYD 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.

Antibody Specificity

- The antibody in the assay has a selective, high affinity for free Pyd and Dpd and negligible binding to bound Pyd and Dpd peptides.

Species Reactivity

- Mouse, Rat, Guinea Pig, Rabbit, Pig, Dog, Sheep, Horse, Cynomologous Macaque, Human.
- Tissue cultures 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 µL of 1:10 diluted Standards, Controls, and samples.
- Add 100 µL cold Enzyme Conjugate.
- Incubate 3 hours ± 10 minutes at 2-8°C.
- Wash 3 times with 1X Wash Buffer.
- Add 150 µL room temperature Working Substrate Solution.
- Incubate 60 ± 5 minutes at room temperature.
- Add 100 µL Stop Solution and read OD at 405 nm.
- Data reduction: 4 parameter.
- Correct for creatinine concentration.

Performance Characteristics

- Method:** Competitive
- Analyte:** Pyridinium crosslinks
- Specimen:** Urine
- Specimen Volume:** 50 µL
- Sensitivity:** 7.5 nM/L
- Dynamic Range:** 15-750 nM
- Precision CVs within-run:** 6.6-9.9%
- Precision CVs between-run:** 3.9-11.2%
- Incubation Time:** 4 Hours
- Specificity:** Free Dpd 100%
Free Pyd < 1%
Pyd/Dpd peptides <2.5%
- Expected Values:**
Females: >25 yr. premenopausal:
16.0-37.0 nmol Pyd/mmol Cr
Males: 12.8-25.6 nmol Pyd/mmol Cr

TO ORDER: Call Quidel Customer service at 1.800.524.6318 (USA only), 1.408.616.4301 or fax 1.408.616.4310.

MicroVue PYD Cat. #8010

Also Available

MicroVue Creatinine Assay	Cat. #8009
Pyridinoline Controls (set of 4)	Cat. #4823
Pyd/Dpd HPLC Calibrator	Cat. #8004
INT-PYD Internal Standard	Cat. #8006
Mouse Anti-Pyd Antibody	Cat. #4809
H-Pyd Antibody	Cat. #4805

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Covered by U.S. Patent Nos. 5,620,861, 5,700,694, 6,121,002 and 5,283,197.

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