

MICROVUE™

Bone Health

Technical Data Sheet

MicroVueDPD

For *In Vitro* Diagnostic Use

MicroVue DPD is a urinary assay that provides a quantitative measure of the excretion of deoxypyridinoline (Dpd) crosslinks as an indicator of bone resorption. Elevated levels of urinary Dpd indicate elevated bone resorption in individuals. Measurement of Dpd is intended for use as an aid in monitoring bone resorption changes in postmenopausal women receiving hormonal or biphosphonate antiresorptive therapies and in individuals diagnosed with osteoporosis.

Format

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

Species Reactivity

- Rat, Mouse, Rabbit, Guinea Pig, Dog, Pig, Sheep, Cynomolgous Macaque, Cow, Horse, Squirrel Monkey, 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 2 hours ± 5 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: Deoxypyridinoline crosslinks
Specimen: Urine
Specimen Volume: 50 µL
Sensitivity: 1.1 nmol/L
Dynamic Range: 3-300 nM
Precision CVs within-run: 4.3-8.4%
Precision CVs between-run: 3.1-4.8%
Incubation Time: 3 Hours
Specificity: Free Dpd 100%
Free Pyd < 1%
Pyd/Dpd peptides <2.5%

Expected Values:

Females: 25-44 yr. premenopausal:
3.0-7.4 nmol Dpd/mmol Cr
Males: 25-55 yr.: 2.3-5.4 nmol Dpd/
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 DPD Cat. #8007

Also Available

DPD Controls (set of 4)	Cat. #4822
MicroVue Creatinine Assay	Cat. #8009
Pyd/Dpd HPLC Calibrator	Cat. #8004
INT-PYD Internal Standard	Cat. #8006
H-Dpd Antibody	Cat. #4807
Mouse Anti-Dpd Antibody	Cat. #4811

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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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