

# 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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0018BH0301D-6 (09/08)