

MICROVUE™

Bone Health

Technical Data Sheet

MicroVue^tDPD

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

MicroVue tDPD is an assay for measurement of total deoxypyridinoline (tDPD) in urine and serum.

Format

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

Antibody Specificity

- Free Dpd (all Dpd is hydrolyzed to free form).
- <1% reactivity with pyridinoline.

Species Reactivity

- Baboon, Cow, Cynomologous Macaque, Dog, Guinea Pig, Horse, Human, Mouse, Rat, Rabbit, Rhesus Macaque, Human cell culture.

Specimen – Serum or Urine

- Fasting serum collected to avoid hemolysis.
- Urine, or human cell culture.

Hydrolysis Steps

For *serum* samples

- Mix samples with acid reagent.

- Centrifuge for 5 minutes.
 - Add supernatants to hydrolysis plate.
- For *urine* samples
- Dilute samples with water, 1:10.
 - Add acid reagent to hydrolysis plates.
 - Add diluted samples to hydrolysis plate for urine and serum.
 - Incubate 18-20 hours at 99°C in PCR oven or Quidel Hydrolysis Unit (#4838).
 - Cool to 4°C.
 - Neutralize with base reagent.

Assay Steps

- Add Assay Buffer to all wells.
- Add diluted Standards and Controls and hydrolyzed/neutralized Samples.
- Incubate 30 minutes at 2-8°C.
- Add Enzyme Conjugate.
- Incubate 120 minutes at 2-8°C.
- Wash 3 times.
- Add Substrate.
- Incubate 120 ± 5 minutes at room temperature.
- Add Stop Solution.
- Read at 405 nm.
- Data reduction: 4 parameter.
- Correct for creatinine concentration for urine samples.

Performance Characteristics

Method: Competitive

Analyte: Deoxypyridinoline

Specimen: Serum or urine

Specimen Volume: 100 µL serum,
50 µL urine

Limit of Detection: 0.5 nmol/L

Lower Limit of Quantification: 1 nmol/L

Higher Limit of Quantification: 100 nmol/L

Precision CVs within-run: 5.3-12.1%

Precision CVs between-run: 10.1-16.8%

Incubation Time: 23-25 Hours

Specificity: Free DPD 100%

Free PYD < 1%

PYD/DPD peptides <2.5%

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

MicroVue Total DPD Cat. #8032

Also Available

PYD/DPD HPLC Calibrator Cat. #8004

INT-PYD Internal Standard Cat. #8006

Hydrolysis Unit Cat. #4838



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Worldwide Headquarters

10165 McKellar Court
San Diego, CA 92121 USA
www.quidel.com

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