

MICROVUE™

Bone Health

Technical Data Sheet

MicroVue Helical Peptide

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

MicroVue Helical Peptide measures type I collagen helical peptide alpha1(I) 620-633 in urine, a marker for researching collagen degradation.

Format

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

Antibody Specificity

- Helical peptide $\alpha 1(I)$ 620-633.
- No reactivity with intact collagen types I, II, III, IV or mixtures of amino acids.
- 90% reactivity with $\alpha 1(III)$ homologous peptide.
- No reactivity with $\alpha 1(II)$, $\alpha 2(I)$ homologous peptides.

Species Reactivity

- Rat, Rabbit, Guinea Pig, Cat, Dog, Pig, Goat, Sheep, Cow, Horse, Rhesus and Cynomolgous Monkey, Baboon, Mouse, Chimpanzee, Human.

Specimen

- Urine.

Assay Steps

- Add 20 mL Standards, Controls and Samples.
- Add 150 μ L Enzyme Conjugate.
- Incubate 18-24 hours at 2-8°C.
- Wash 3 times with 1X Wash Buffer.
- Add 150 μ L Working Substrate.
- Incubate 60 \pm 5 minutes at room temperature.
- Add 100 μ L Stop Solution.
- Read absorbance at 405 nm.
- Data reduction: 4 parameter.
- Correct for creatinine concentration.

Performance Characteristics

Method: Competitive
Analyte: Helical Peptide $\alpha(I)$ 620-633
Specimen: Urine
Specimen Volume: 20 mL
Limit of Detection: 8 μ g/L
Lower Limit of Quantification: 20.2 μ g/L
Higher Limit of Quantification: 2514 μ g/L
Precision CVs within-run: 4.0-8.1%
Precision CVs between-run: 7.3-16.9%
Incubation Time: 19-25 Hours
Cross Reactivity: Helical Peptide $\alpha 1(I)$ 620-633 100%
Intact collagen I, II, III, IV <1%
Homologous peptides (see insert)

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

MicroVue Helical Peptide Cat. #8022

Also Available

MicroVue Creatinine Assay Cat. #8009
Helical Peptide Controls Cat. #4936
(set of 4)



RESEARCH TO RAPIDS™

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

For more information on our products and other Quidel locations, visit our website.
800.524.6318 • 408.616.4301 • 408.616.4311 (fax)

0029BH1001D-4 (01/10)

Covered by U.S. Patent No. 5,972,623.