

# MICROVUE™

## Bone Health

## Technical Data Sheet

### MicroVueOsteocalcin

Sold in the U.S. for **Research Use Only**. Not for use in diagnostic procedures.

MicroVue Osteocalcin provides a quantitative measure of intact osteocalcin (OC) in serum as a biochemical indicator of bone turnover.



#### Format

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

#### Species Reactivity

- Rabbit, Pig, Sheep, Goat, Cow, Horse, Cynomolgous Macaque, Human.
- Human cell cultures.
- No recognition of Rat, Mouse, Dog.

#### Specimen

- Serum, processed and frozen at  $\leq -20^{\circ}\text{C}$  within 4 hours of collection.
- Do not use collection tubes containing EDTA.

#### Assay Steps

- Add 25  $\mu\text{L}$  Standards, Controls, and Samples.
- Add 125  $\mu\text{L}$  anti-Osteocalcin antibody.
- Incubate 2 hours  $\pm$  10 minutes at room temperature.
- Wash 3 times with 1X Wash Buffer.
- Add 150  $\mu\text{L}$  reconstituted Enzyme Conjugate.
- Incubate 60  $\pm$  5 minutes at room temperature.
- Wash 3 times with 1X Wash Buffer.
- Add 150  $\mu\text{L}$  Working Substrate Solution.
- Incubate 35-40 minutes at room temperature.
- Add 50  $\mu\text{L}$  Stop Solution.
- Read OD at 405 nm.
- Data reduction: 4 parameter.

#### Performance of Test

- Method:** Competitive
- Analyte:** Intact osteocalcin
- Specimen:** Serum
- Specimen Volume:** 25  $\mu\text{L}$
- Limit of Detection:** 0.45 ng/ $\mu\text{L}$
- Lower Limit of Quantification:** 2 ng/ $\mu\text{L}$
- Higher Limit of Quantification:** 32 ng/ $\mu\text{L}$
- Precision CVs within-run:** 4.8-10.0%
- Precision CVs between-run:** 4.8-9.8%
- Incubation Time:** 3.6 Hours
- Cross Reactivity:** Intact OC 100%  
Reduced OC N.D.  
N-, C- peptides N.D.

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

**MicroVue Osteocalcin** Cat. #8002

#### Also Available

Osteocalcin Controls Cat. #4819  
(set of 4)



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

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