

# MICROVUE™

## Bone Health

## Technical Data Sheet

### MicroVueBAP

For *In Vitro* Diagnostic Use

The MicroVue BAP immunoassay provides a quantitative measure of bone-specific alkaline phosphatase (BAP) activity in serum as an indicator of osteoblastic activity. Measurement of BAP is intended for use as an aid in the:

- management of postmenopausal osteoporosis and Paget's disease;
- monitoring of postmenopausal women on hormonal or bisphosphonate therapy;
- prediction of skeletal response to hormonal therapy in postmenopausal women.

#### Format

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

#### Species Reactivity

- Rabbit, Pig, Dog, Sheep, Goat, Cow, Horse, Cynomolgus Macaque, Human.
- Tissue culture of above species.
- No recognition of Rat or Mouse.

#### Specimen – Serum

- Stable in serum with a long half-life.
- Unaffected by impaired renal function.
- Unaffected by other circulating AP isoenzymes.

#### Assay Steps

- Add 125  $\mu$ L Assay Buffer.
- Add 20  $\mu$ L Standards, Controls, and samples; swirl.
- Incubate 3 hours  $\pm$  10 minutes at room temperature.
- Wash 4 times with 1X Wash Buffer.
- Add 150  $\mu$ L room temperature Working Substrate Solution.
- Incubate 30  $\pm$  5 minutes at room temperature.
- Add 100  $\mu$ L Stop Solution and read OD at 405 nm.
- Data reduction: 4 parameter.

#### Performance Characteristics

**Method:** Immuno-capture  
**Analyte:** Bone alkaline phosphatase  
**Specimen:** Serum  
**Specimen Volume:** 20  $\mu$ L  
**Sensitivity:** 0.7 U/L  
**Dynamic Range:** 2-140 U/L  
**Precision CVs within-run:** 3.9-5.8%  
**Precision CVs between-run:** 5.0-7.6%  
**Incubation Time:** 3.5 Hours  
**Specificity:** Bone AP 100%  
Liver AP 3-8%  
Placenta AP 0%  
Intestine AP 0.4%

#### Expected Values:

Females: 25-44 yr. premenopausal:  
11.6-29.6 U/L  
Females:  $\geq$  45 yr. postmenopausal:  
14.2-42.7 U/L  
Males:  $\geq$  25 yr.: 15.0-41.3 U/L

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

**MicroVue BAP** Cat. #8012

**Also Available**  
BAP Controls (set of 4) Cat. #4820



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