

# Biolab Medical Unit

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Biolab reference: **XXXX/MCON/G11** Patient: **Sample Report**  
Date: **04/07/2011** Age: **59**  
Doctor's reference: Sex: **Female**  
Doctor: **Dr.. . . . .**

## Osteoporosis Profile

<u>Enzymes</u>	<u>Results</u>	<u>Units</u>	<u>Reference range</u>
Alkaline phosphatase:			
Total	<b>62</b>	units	30 - 130 (adult)
Bone	<b>27</b>	units	20 - 65
Tartrate resistant acid phosphatase	<b>2.1</b>	units	1.5 - 4.3

### Minerals

Plasma calcium	<b>2.46</b>	mmol/l	2.10 - 2.60
Plasma inorganic phosphorus	<b>0.93</b>	mmol/l	0.80 - 1.50
Plasma copper	<b>22.0</b>	µmol/l	12.5 - 25.0
Plasma manganese	<b>14.0</b>	nmol/l	9.0 - 25.0
Plasma zinc	<b>10.1</b>	µmol/l	11.5 - 20.0
Red cell magnesium	<b>2.03</b>	mmol/l	2.08 - 3.00

### Vitamins

Vitamin A (retinol)	<b>1.92</b>	µmol/l	1.05 - 2.80
Vitamin C (ascorbic acid)	<b>62</b>	µmol/l	34 - 114
Vitamin D3 (25-hydroxy D3)	<b>45</b>	nmol/l	
Vitamin D2 (25-hydroxy D2)	<b>0</b>	nmol/l	
Total vitamin D (25-hydroxy)	<b>45 (18)</b>	nmol/l (µg/L)	75 - 200 (30 - 80)

### Urine (second void early morning sample)

Urine calcium	<b>0.53</b>	mol Ca / mol creatinine	0.25 - 0.60
Urine phosphorus	<b>2.35</b>	mol PO <sub>4</sub> / mol creatinine	1.46 - 4.75
Urine magnesium	<b>0.63</b>	mol Mg / mol creatinine.	0.50 - 0.85
Urine zinc	<b>1052</b>	µmol Zn / mol creatinine	17 - 1624

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## Osteoporosis Profile

### Comments:

Low bone alkaline phosphatase activity suggests poor osteoblastic activity and a reduced rate of bone formation.

Zinc and magnesium deficiencies.

Vitamin D deficiency.

### IMPORTANT NOTE:

These tests include essential nutrients of known importance in the development and maintenance of bone. Further details are provided in our test datasheet which is available on request or can be downloaded from the Biolab web site.

**THIS PROFILE DOES NOT REPLACE THE MEASUREMENT OF BONE DENSITY**