

Biolab Medical Unit

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Biolab reference: **XXXX/MCON/B17**

Patient: **Sample Report**

Date: **04/02/2017**

Age: **59**

Clinician's reference:

Sex: **Female**

Clinician: **Dr.**

Osteoporosis Profile

<u>Enzymes</u>	<u>Results</u>	<u>Units</u>	<u>Reference range</u>
Alkaline phosphatase: Total	62	IU/L	40 - 130 (adult)
Tartrate resistant acid phosphatase	2.1	units	1.5 - 4.3

<u>Minerals</u>			
Plasma calcium	2.49	mmol/l	2.10 - 2.60
Plasma inorganic phosphorus	1.06	mmol/l	0.80 - 1.50
Plasma copper	22.0	µmol/l	12.5 - 25.0
Plasma manganese	14.0	nmol/l	9.0 - 25.0
Plasma zinc	8.9	µmol/l	11.5 - 20.0
Red cell magnesium	1.89	mmol/l	2.08 - 3.00

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

<u>Urine (second void early morning sample)</u>			
Urine calcium	0.55	mol Ca / mol creatinine	0.25 - 0.60
Urine phosphorus	4.1	mol PO ₄ / mol creatinine	1.46 - 4.75
Urine magnesium	0.63	mol Mg / mol creatinine.	0.50 - 0.85
Urine zinc	632	µmol Zn / mol creatinine	17 - 1624
Collagen Type 1N Telopeptides [NTx]	104	nmol BCE / mmol creatinine [BCE- Bone Collagen Equivalent]	5 - 65

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Comments:

Elevated levels of urine N-terminal telopeptide (NTX) suggest increased bone turnover.

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