

Biolab Medical Unit

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Biolab reference: **XXXX/XXXX/G19**

Patient: **Sample Report**

Date: **25/07/2019**

Age: **59**

Clinician's reference:

Sex: **Female**

Clinician: **Sample Report**

Osteoporosis Profile

Enzymes

	<u>Results</u>	<u>Units</u>	<u>Reference range</u>
Alkaline phosphatase: Total	157	IU/L	35 - 104 (adult)

Minerals

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	1.92	mmol/l	2.08 - 3.00

Vitamins

Vitamin A (retinol)	1.92	µmol/l	1.05 - 2.80
Vitamin C (ascorbic acid)	38	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)

Urine (second void early morning sample)

Urine calcium	0.82	mol Ca / mol creatinine	0.25 - 0.60
Urine phosphorus	3.98	mol PO ₄ / mol creatinine	1.46 - 4.75
Urine magnesium	0.63	mol Mg / mol creatinine.	0.50 - 0.85
Urine zinc	67	µmol Zn / mol creatinine	17 - 1624
Collagen Type 1N Telopeptides [NTx]	92	nmol BCE / mmol creatinine [BCE- Bone Collagen Equivalent]	5 - 65

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Osteoporosis Profile

Comments:

Elevated alkaline phosphatase (ALP) activity consistent with vitamin D deficiency

Zinc and magnesium deficiencies.

Vitamin D deficiency.

Elevated urine calcium level suggesting an increased rate of bone loss.

Moderate elevation of urine N-terminal telopeptide (NTX) suggest unbalanced bone re-modelling characteristic of osteoporosis

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