

Biolab Medical Unit

9 Weymouth Street, London W1W 6DB, UK

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Biolab reference: **XXXX/MCON/B09** Patient: **Sample Report**

Date: **10/02/2009** Age: **30**

Doctor's reference: **014652** Sex: **Male**

Doctor: **Dr.....**

Health Risk Profile

<u>Vitamins and related antioxidants:</u>	<u>Results</u>	<u>Units</u>	<u>Reference range</u>
Serum vitamin A (retinol)	1.31	µmol/L	1.00 - 2.45
Serum vitamin C (ascorbic acid)	70	µmol/L	34 - 114
Serum vitamin E (alpha-tocopherol)	16	µmol/L	25 - 60
Serum β-carotene	0.67	µmol/L	0.20 - 3.00
Serum lycopene	0.37	µmol/L	0.20 - 4.50
Serum lutein	0.53	µmol/L	0.25 - 0.75

Minerals:

Serum zinc	64	µg/dL	75 - 130
Serum copper	94	µg/dL	80 - 160
Serum chromium	0.39	µg/L	0.32 - 0.87
Serum selenium	90	µg/L	80 - 150
Red cell magnesium	2.09	mmol/L	2.08 - 3.00

Essential fatty acids in red cells:

18:3n6 Gamma-Linolenic acid	1.7	µmol/L	0.7 - 2.5
20:3n6 Di homo gamma-linolenic acid	6.5	µmol/L	5.0 - 9.7
20:4n6 Arachidonic acid	29	µmol/L	28 - 70
20:5n3 Eicosapentaenoic acid	4.2	µmol/L	2.1 - 7.4
22:6n3 Docosahexaenoic acid	9.6	µmol/L	7.2 - 17.4

Results continued overleaf

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	<u>Results</u>	<u>Units</u>	<u>Reference range</u>
<u>Enzymes:</u>			
RBC glutathione peroxidase (GSHPx-1)	25	IU/gm Hb	25 - 50
Plasma glutathione peroxidase (GSHPx-3)	130	IU/L	115 - 400
RBC Superoxide dismutase	53	u/gHb	1102 - 1601
Serum: Paraoxonase	250	IU/L	150 - 1000
Alkaline phosphatase - Total	100	U/L	40 - 165
TRAP - tartrate resistant acid phosphatase	2.8	U/L	1.5 - 4.3
Acid phosphatase - prostatic	0.3	U/L	up to 0.9
Lactate dehydrogenase	215	U/L	100 - 450
Gamma-glutamyl transferase	36	U/L	6 - 28 (male)
Glutathione-S-transferase	40	U/L	12 - 46

Bile acids (serum):

Total bile acids	3.0	µmol/L	<6.4 fasting
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Proteins (serum):

Albumin	38	g/L	35 - 60
Globulin	33	g/L	15 - 30
C-Reactive protein	0.3	mg/dL	<0.5

Others:

Glycosylated haemoglobin (HbA1c)	6.7	%	up to 8.0
HbA1c (IFCC standardised units)	50	mmol/mol	up to 64

Interpretive comments overleaf

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Health Risk Profile

Comments:

IMPORTANT NOTE:

This nutrition-related profile is designed to identify biochemical abnormalities associated with an increased risk of disease. It does not replace routine biochemistry, haematology and clinical assessment.

Most of the tests relate to protective factors such as antioxidants, trace elements, vitamins and essential fatty acids. However, aware that the finding of several abnormalities could reflect an early stage of a disease, we have included some sensitive liver and biliary function tests and some proteins.

Normal results in this profile cannot completely exclude an underlying disease.

In order to keep the charges to a minimum, requests for this profile are accepted on a non-urgent basis. Every attempt has been made to have the results available within 10 working days.