

ויטמינים בדם + מתכות כבדות בדם בסרום ותוך תאי

Analysis report

Date of print: 6/20/2025 09:21 AM

Name : M.
D.o.b. : 06/24/1952b
Pat. No. : 176975
Institute : Medical Service :
Depart.

First name : L.
Sex : Female
Applicant : M



Applicant
Appoint. date
Appoint. time
Appoint. No.

6/6/25
11:34 AM
290662

Unit Ref. Range

HEMATOLOGY

Complete blood count (CBC)

WBC	5.8	x10 ⁹ /L	4.0 - 10.0
Hemoglobin	6.2	mmol/l	7.5 - 9.7
RBC	3.90	x10 ¹² /l	4.10 - 5.70
Hematocrit	0.36	l/l	0.38 - 0.49
MCH	1.58	fmol	1.70 - 2.10
MCV	93	fL	87 - 98
MCHC	17.1	mmol/l	19.0 - 22.0
RDW	16.8	%	11.0 - 15.0
Platelets	272	x10 ⁹ /L	175 - 375

VITAMINS (MOL/L)

Vitamin A (as retinol)	2.91	μmol/l	2.20 - 4.00
CAROTENOIDS			
Luteine	0.22	μmol/l	0.38 - 1.33
Zeaxanthine	0.09	μmol/l	0.08 - 0.27
Luteine+Zeaxanthine	0.31	μmol/l	0.46 - 1.59
Alpha-caroten	0.45	μmol/l	0.13 - 0.86
β-carotene	0.47	μmol/l	0.60 - 2.60
Alpha-lycopene	0.02	μmol/l	0.12 - 0.57
Beta-lycopene	0.03	μmol/l	0.11 - 0.54
Lycopenes	0.05	μmol/l	0.54 - 1.15
Vitamin B1 (Thiamine)	11	nmol/l	
Vitamin B1 (TMP)	12	nmol/l	
Vitamin B1 (TPP)	109	nmol/l	
Total vitamin B1 (as TPP)	132	nmol/l	118 - 235
Riboflavin (B2, FAD)	1066	nmol/l	797 - 1860
Vitamin B3 (Niacinamide)	28	μmol/L	
Vitamin B3 (Nicotinic Acid)	12.0	μmol/L	
Vitamin B3 (NAD)	1.7	μmol/L	

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<u>VITAMINS (MOL/L) (vervolg van pagina 1)</u>			
Total vitamin B3 (as N-amide)	42	µmol/L	35 - 60
Vitamin B5 (Pantothenic acid)	6.9	µmol/l	2.7 - 8.4
Vitamin B6 act. (P-5-P)	129	nmol/l	85 - 505
Vitamin B6 (Pyridoxal)	9.3	nmol/l	22.1 - 221.4
Vitamin B6 (Pyridoxin)	<6	nmol/l	3 - 41
Vitamin B6 (Pyridoxic acid (PA))	29	nmol/l	6 - 120
PA / P-5-P ratio	0.21	Ratio	0.00 - 0.40
Biotin (B7)	3214	pmol/l	1227 - 12279
Folic Acid (B9/B11)*	13.1	nmol/l	37.0 - 97.0
Vitamin B12*	409	pmol/l	400 - 2000
Vitamin D3 (25-OH D3)	132.3	nmol/l	82.0 - 217.0
Vitamin E (as alpha tocopherol)	46.7	µmol/l	29.5 - 87.4
Beta Tocopherol	0.6	µmol/l	0.2 - 2.0
Gamma Tocopherol	3.38	µmol/l	1.65 - 10.14
Delta Tocopherol	0.35	µmol/l	0.05 - 0.84
Total tocopherol	51.0	µmol/l	32.1 - 99.9
Alpha tocotrienol	32.60	nmol/l	29.90 - 520.00
Beta Tocotrienol	13.28	nmol/l	9.90 - 280.00
Gamma Tocotrienol	31.00	nmol/l	30.00 - 370.00
Delta Tocotrienol	18.30	nmol/l	20.20 - 441.00
Total tocotrienol	95.18	nmol/l	85.00 - 1614.00
Vitamin K1 (Fylochinon)	823	pmol/l	888 - 2663
Vitamin K2 (MK-4)	27.3	pmol/l	
Vitamin K2 (MK-7)	6.5	nmol/l	2.3 - 17.6
Vitamin K2 (MK-9)	21.6	pmol/l	
Coenzym Q10	0.6	µmol/l	0.6 - 1.2
Free Carnitin	76.1	µmol/l	43.4 - 105.5
Total Carnitin	84.3	µmol/l	49.0 - 119.7
Acyl / total Carnitin	0.10	Ratio	0.12 - 0.30

= Outside reference range | = Extreme | * = for research only

Continued on page 3

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VITAMINS (MOL/L) (vervolg van pagina 2)

Acyl Carnitin	8.2	μmol/l	5.6 - 14.3
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ELEMENTS IN WHOLE BLOOD

Sodium	2243	mg/l	1820 - 2050
Potassium	1385	mg/l	1670 - 1970
Calcium	66.5	mg/l	48.0 - 61.0
Magnesium	33.1	mg/l	34.0 - 48.0
Zinc	4.3	mg/l	5.3 - 6.5
Copper	1.3	mg/l	0.8 - 1.3
Selenium	0.118	mg/l	0.120 - 0.410
Manganese	16.4	μg/l	14.0 - 37.0
Chromium	0.5	μg/l	0.2 - 1.6
Cobalt	0.12	μg/l	0.06 - 0.72
Molybdenum	1.6	μg/l	0.4 - 1.9
Vanadium	0.19	μg/l	0.04 - 0.08

TOXIC ELEMENTS

Aluminium	3.0	μg/l	<= 17.0
Arsenic	2.1	μg/l	<= 3.1
Cadmium	0.19	μg/l	<= 2.30
Gold	<0.05	μg/L	<= 0.30
Mercury (Organic / Inorganic)	1.8	ng/mL	<= 2.0
Lead	7.6	μg/l	<= 45.0
Nickel	0.7	μg/l	0.4 - 0.8
Thallium	<0.2	μg/l	< 0.6

ELEMENTS IN SERUM

Sodium	3196	mg/l	3110 - 3340
Potassium	175	mg/l	144 - 188
Calcium	92	mg/l	87 - 106
Magnesium	20.3	mg/l	19.0 - 24.0
Zinc	0.8	mg/l	0.8 - 1.4

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ELEMENTS IN SERUM (vervolg van pagina 3)

Copper	1.5	mg/l	0.7 - 1.4
Selenium	0.092	mg/l	0.080 - 0.300
Cobalt	0.2	µg/l	0.1 - 0.9
Molybdenum	2.2	µg/l	0.5 - 3.2

TOXIC ELEMENTS

Cadmium	<0.02	µg/L	<= 0.03
Gold	0.00	µg/L	<= 0.20

INTRACELLULAR CONCENTRATION

RBC Zinc	10.6	mg/l	10.5 - 13.7
RBC Magnesium	55.9	mg/l	52.0 - 80.0
RBC Copper	0.9	mg/l	0.7 - 1.3
RBC Sodium	549	mg/l	<= 665
RBC Potassium	3536	mg/l	3350 - 4500
RBC Molybdenum	0.6	µg/l	0.6 - 2.1
RBC Selenium	0.164	mg/l	0.170 - 0.550
Zinc/Copper	11.7	ratio	9.0 - 16.0

TOXIC ELEMENTS INTRACELLULAR

RBC Cadmium	0.5	µg/l	<= 5.5
RBC Lead	20	µg/l	<= 106