

Comprehensive Functional Blood Analysis

Name:

Collection Date:

Gender:

Client#

Green - Optimal ideal range **Yellow** - Satisfactory, could use improvement **Red** - Out of medical range, needs attention

Biomarker	Current	Optimal Range	Standard Range	Units
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RENAL

BUN	7	10 - 16	7 - 25	mg/dL
Creatinine	0.61	0.5 - 0.99	0.50 - 0.97	mg/dL
eGFR	119	90 - 150	>= 60	mL/min/1.73

ELECTROLYTES

Sodium	137	137 - 142	135 - 146	mmol/L
Potassium	4.1	4 - 5	3.5 - 5.3	mmol/L
Chloride	105	100 - 106	98 - 110	mmol/L
CO2	23	25 - 30	20 - 32	mmol/L

PROTEINS

Protein - Total	7.2	6.7 - 7.3	6.1 - 8.1	g/dL
Albumin	4.3	4.0 - 5	3.6 - 5.1	g/dL
Globulin - Total	2.9	2.4 - 2.8	1.9 - 3.7	g/dL

MINERALS

Calcium	9.3	8.9 - 9.5	8.6 - 10.2	mg/dL
Phosphorus	3.3	2.6 - 4.0	2.5 - 4.5	mg/dL
Magnesium - Serum	2.0	2.2 - 2.5	1.5 - 2.5	mg/dL
Iron - Serum	36	85 - 130	40 - 190	mcg/dL
Ferritin	7	40 - 110	16 - 154	ng/mL
TIBC	413	250 - 350	250 - 450	mcg/dL
% Transferrin saturation	9	24 - 35	16 - 45	%

VITAMINS

Vitamin D (25-OH)	31	50 - 90	30 - 100	ng/mL
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LIVER AND GB

Alk Phos	41	45 - 100	31 - 125	U/L
AST	11	14 - 26	10 - 30	U/L
ALT	11	14 - 26	6 - 29	U/L
LD	120	140 - 200	100 - 200	U/L
Bilirubin - Total	0.4	0.2 - 0.9	0.2 - 1.2	mg/dL
Bilirubin - Direct	0.1	0 - 0.15	0 - .2	mg/dL
GGT	10	14 - 25	3 - 50	U/L

Biomarker	Current	Optimal Range	Standard Range	Units
METABOLIC				
Uric Acid	4.7	3.5 - 5.5	2.5 - 7.0	mg/dL
Creatine Kinase	54	65 - 135	20 - 239	U/L
BLOOD GLUCOSE				
Glucose Fasting	98	75 - 86	65 - 99	mg/dL
Hemoglobin A1c	5.9	4.6 - 5.3	< 5.7	%
eAG	123	85 - 105	82 - 154	mg/dL
Insulin - Fasting	22.4	2 - 5	0 - 18.4	H uIU/mL
LIPIDS				
Cholesterol - Total	156	160 - 199	< 200	mg/dL
Triglycerides	62	20 - 100	< 150	mg/dL
LDL Cholesterol	90	80 - 99	0 - 99.99	mg/dL
HDL Cholesterol	52	55 - 100	40 - 110	mg/dL
Non-HDL Cholesterol	104	70 - 99	< 130	mg/dL
Cholesterol : HDL	3.0	0 - 3	0 - 5	
Triglycerides : HDL	1.2	0 - 2	0 - 2	Ratio
THYROID				
TSH	1.83	1 - 2	0.4 - 4.5	mIU/L
T4 - Total	7.4	6 - 11.90	5.1 - 11.9	mcg/dL
T3 - Free	3.5	3 - 3.5	2.3 - 4.2	pg/mL
T3 - Uptake	35	27 - 35	22 - 35	%
Free Thyroxine Index (T7)	2.6	1.7 - 4.6	1.4 - 3.8	Index
Thyroglobulin Antibodies	1		0 - 1	IU/mL
Thyroid Peroxidase Antibodies	1		0 - 8.99	IU/mL
CARDIOMETABOLIC/DETOXIFICATION				
Homocysteine	4.3	5 - 7.99	<= 11.0	umol/L
INFLAMMATION				
Hs CRP	1.6	0 - 1	0 - 2.99	mg/L
HORMONES				
DHEA-S	349		19 - 237	mcg/dL
Testosterone Total	27	25 - 45	2 - 45	ng/dL
Testosterone Free	4.5	2 - 4.6	0.2 - 5.0	pg/mL
Sex Hormone Binding Globulin	20	50 - 65	17 - 124	nmol/L
Testosterone Bioavailable	9.1	3.5 - 8.5	0.5 - 8.5	ng/dL
CBC				
RBC	4.28	4.3 - 4.8	3.80 - 5.10	Million/uL
Hemoglobin	11.0	13.5 - 14.5	11.7 - 15.5	g/dL
Hematocrit	36.3	37 - 44	35.0 - 45.0	%

Biomarker	Current	Optimal Range	Standard Range	Units
MCV	84.8	84 - 94	80.0 - 100.0	fL
MCH	25.7	28 - 31.9	27.0 - 33.0	pg
MCHC	30.3	32 - 36	32.0 - 36.0	g/dL
Platelets	382	190 - 300	140 - 400	Thousand/uL
MPV	9.4	7.5 - 11.5	7.5 - 12.5	fL
RDW	15.0	11 - 13	11.0 - 15.0	%

WBCS

Total WBCs	8.2	3.8 - 6	3.8 - 10.8	Thousand/uL
Neutrophils - %	60	50 - 60	38.00 - 74.00	%
Lymphocytes - %	32.8	30 - 35	14.00 - 46.00	%
Monocytes - %	5.9	4 - 7	4.00 - 13.00	%
Eosinophils - %	0.7	0 - 3	0 - 3.00	%
Basophils - %	0.6	0 - 1	0 - 1.00	%
Neutrophils - Absolute	4920	1900 - 4200	1500 - 7800	cells/uL
Lymphocytes - Absolute	2690	1440 - 2540	850 - 3900	cells/uL
Monocytes - Absolute	484	200 - 400	200 - 950	cells/uL
Eosinophils - Absolute	57	0 - 200	15 - 500	cells/uL
Basophils - Absolute	49	0 - 100	0 - 200	cells/uL

AUTOIMMUNE MARKERS

Rheumatoid Factor	10	< 14	IU/mL
ANA Screen, IFA	POSITIVE		
ANA Titer	1:40		
ANA Pattern	Nuclear, Homogeneous		