



NutriStat

COMPLETE

Improving Nutritional & Metabolic Health

Dr. TEST DOCTOR
TEST HEALTH CENTRE

TEST PATIENT

01-Jan-1960 Female

LAB ID: 3890014



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LAB ID : 3890014
Collection Date : 11-May-2023
Received Date: 11-May-2023

Dr.TEST DOCTOR
Interpretation at a Glance
Metabolic Summary

 FIBRINOGEN
 CHOLESTEROL
 LDL(Atherogenic)
 Mean Particle Size
 GLUCOSE (FASTING)

Endocrinology Summary
Mineral/Metals Summary

 Copper.
 MERCURY

Nutritional Guide

Nutrient	Adult Dose Range	Units	Clinician Notes
Vitamin-C	450.0	mg	
Vitamin-B1	15.0	mg	
Vitamin-B2	17.0	mg	
Vitamin-B3	13.0	mg	
Vitamin-B5	10.0	mg	
Vitamin-B6	5.0	mg	
Vitamin-B12	450.0	ug	
Chromium .	3.0	ug	
Magnesium .	140.0	mg	
Acetyl-L-Carnitine.	20.0	mg	
N-Acetylcysteine.	5.0	mg	
Glutathione.	4.6	mg	
Glycine .	5.0	mg	
Methionine.	6.0	mg	
Ornithine.	10.0	mg	
Serine.	5.0	mg	
Taurine .	6.0	mg	
Tryptophan.	8.0	mg	
Lactobacillus	1.0	billion CFU	
Probiotics (Multistain)	1.0	billion CFU	
D-Lactate-free probiotics	1.0	billion CFU	

Disclaimer:

Supplement recommendations are based on the Organic Acid test results. The prescribing health practitioner must take into consideration the age, weight, sex, and pregnancy or lactation state. In addition, consider clinical state, medication regime, associated drug-nutrient depletion and allergies. The doses listed above are considered optimal, based on lab results and do not apply to specific disease conditions where doses may need to be altered. The vitamins, minerals or amino acids listed are elemental quantities. Use clinical discretion when choosing the right salt with the guidance of your compounding health professional. For example, Magnesium may be prescribed as a glycinate for its calming effect or threonate may be used for a Magnesium that crosses the blood-brain-barrier.

References:

Laboratory Evaluations for Integrative and Functional Medicine by Richard Lord. J.Alexander Bralley; Textbook of Nutritional Medicine by Alan Gaby.

Metabolic Health

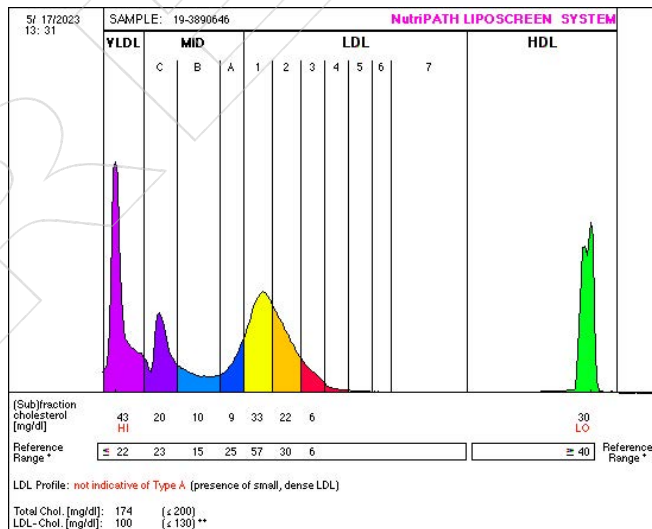
BLOOD - SERUM

	Result	Range	Units	
Cholesterol:	290 *H	< 200.0	mg/dl	
Triglycerides:	97	< 177.0	mg/dl	
HDL Cholesterol:	58	46.3 - 77.2	mg/dl	
Non-HDL Cholesterol:	232 *H	0.0 - 154.0	mg/dl	
LDL/HDL Ratio:	3.7 *H	0.0 - 3.2	RATIO	
Lipoprotein (a):	34.9	0.0 - 34.9	mg/dl	
Apolipoprotein-B:	100	60.0 - 130.0	mg/dl	
Apolipoprotein-A1:	200	110.0 - 205.0	mg/dl	
Apolipoprotein-B/A ratio:	0.5	0.4 - 1.1	RATIO	
High Sensitive CRP:	1.0	0.0 - 5.0	mg/L	
Fibrinogen:	100 *L	200.0 - 450.0	mg/dl	
Glucose, Fasting	108 *H	54.1 - 97.3	mg/dl	
Very Low Density Lipoprotein (VLDL)	43.0 *H	< 22.00	mg/dl	
Intermediate Density Lipoprotein (IDL-1)	20.0	< 23.00	mg/dl	
Intermediate Density Lipoprotein (IDL-2)	10.0	< 15.00	mg/dl	
Intermediate Density Lipoprotein (IDL-3)	9.0	< 25.00	mg/dl	
Low Density Lipoprotein (LDL-1)	33.0	< 57.00	mg/dl	
Low Density Lipoprotein (LDL-2)	22.0	< 30.00	mg/dl	
Low Density Lipoprotein (LDL-3)	6.0	< 6.00	mg/dl	
Low Density Lipoprotein (LDL-4)	<dl	< 0.10	mg/dl	
Low Density Lipoprotein (LDL-5)	<dl	< 0.10	mg/dl	
Low Density Lipoprotein (LDL-6)	<dl	< 0.10	mg/dl	
Low Density Lipoprotein (LDL-7)	<dl	< 0.10	mg/dl	
Mean Particle Size	266.0 *L	> 268.0	Angstrom	

Type B Abnormal

BLOOD - PLASMA

Homocysteine:	11.0	5.0 - 15.0	nmol/ml	
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*Reference ranges derived from 125 serum samples that met the NCEP ATP III guidelines for desirable lipid status
**LDL-C is comprised of the sum of cholesterol in Mid bands C through A as well as all the subfractions

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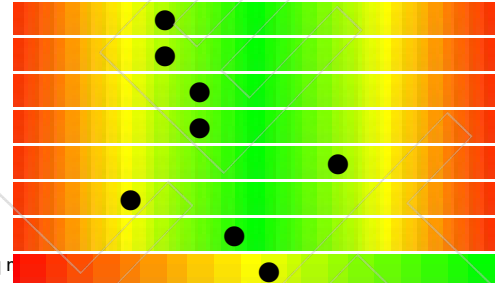
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Dr.TEST DOCTOR

BLOOD - SERUM

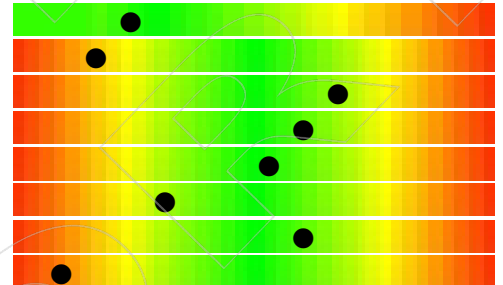
RENAL FUNCTION TESTS:

	Result	Range	Units
Sodium:	137	135.0 - 145.0	mmol/L
Potassium:	4.0	3.5 - 5.2	mmol/L
Chloride:	101	95.0 - 110.0	mmol/L
Bicarbonate:	25	20.0 - 32.0	mmol/L
Anion Gap:	15	8.0 - 16.0	mmol/L
Urea (BUN):	11.2	9.8 - 22.4	mg/dl
Creatinine:	0.79	0.51 - 1.02	mg/dl
eGFR:	80 *L	> 90.00	ml/min/1.73sq m



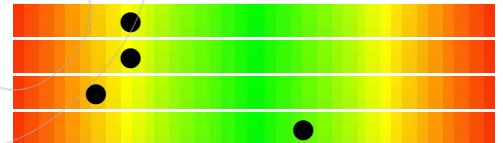
LIVER FUNCTION TESTS:

Bilirubin, Total:	0.2	0.0 - 1.2	mg/dl
Alkaline Phosphatase:	33	30.0 - 110.0	units/L
gamma-GT:	30	5 - 35	units/L
ALT:	28	10.0 - 35.0	units/L
AST:	27	10.0 - 35.0	units/L
Total Protein:	6.6	6.0 - 8.0	g/dL
Albumin:	4.4	3.3 - 4.8	g/dL
Globulin:	2.2 *L	2.6 - 3.9	g/dL



IRON STUDIES:

Iron:	39.1	27.9 - 168.0	ug/dL
Transferrin:	200	180.0 - 350.0	mg/dl
Transferrin Saturation:	14.0 *L	15.0 - 45.0	%
Ferritin:	220	30.0 - 300.0	ng/mL



IRON STUDIES INTERPRETATION TABLE

CONDITION/SYMPATOM	IRON	TRANSFERRIN SATURATION	FERRITIN
Iron Deficiency	Decreased	Decreased	Decreased
Iron Deficiency and Acute Phase Response	Decreased	Normal or Decreased	"Normal" < 100 ng/ml
Acute Phase Response	Decreased	Decreased	Increased
Iron Overload	Increased	Increased	Increased

VITAMINS

Active B12:	54	50.6 - 254.0	pg/mL
Folate:	5.8	3.0 - 16.0	ng/mL
25-OH Vitamin D:	25.0 *L	30.0 - 100.0	ng/mL











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Thyroid Function Health

BLOOD - SERUM	Result	Range	Units	
TSH:	3.00	0.50 - 5.00	mU/L	
FT4:	1.09	0.90 - 1.70	ng/dL	
FT3:	3.4	2.0 - 4.4	pg/mL	
Reverse T3:	17.3	14.9 - 35.1	ng/dL	
FT3/RT3 Ratio:	19.7 *L	> 20.0	RATIO	
Anti-Thyroglobulin Ab:	74.0	0.0 - 115.0	IU/L	
Thyroid Peroxidase Ab:	33.0	0.0 - 35.0	IU/L	
TSH Receptor Ab:	1.2	0.0 - 1.8	IU/L	

Hormone Health

Progesterone:	0.6		ng/mL	
DHEAS:	52	10.0 - 246.0	ug/dL	
Testosterone, Total:	0.3	0.0 - 0.4	ng/mL	
Sex Horm Binding Globulin (SHBG):	30	27.0 - 128.0	nmol/L	
Testosterone, Free:	5.4	0.3 - 6.3	pg/mL	
Estradiol (E2):	6.5		pg/mL	

	PROGESTERONE	ESTRADIOL
	ng/ml	pg/ml
Follicular phase	0.05 - 0.194	31 - 90.3
Ovulation phase	0.055 - 4.15	60.4 - 533
Luteal phase	4.12 - 14.56	60.4 - 232
Post -menopause	0.05 - 0.126	5.0 - 137
Pregnant - 1st Trim.	11.0 - 44.3	153 - 3237
Pregnant - 2nd Trim.	25.4 - 83.3	1558 - 21243
Pregnant - 3rd Trim.	58.8 - 214	8510 - 29947
Male	0.05 - 0.149	11.2 - 43.2

PLEASE NOTE:

Reference ranges are based on the manufacturer's range. These ranges serve as clinical guidelines. However, each individual is unique and evaluation of hormone status should be within the context of the patient's clinical picture.

Mineral Analysis

BLOOD - Red Cell	Result	Range	Units	
Chromium	1.20	1.00 - 2.00	ug/L	
COBALT	1.30	0.13 - 1.70	ug/L	
Iodine	17.00	15.00 - 160.00	ug/L	
MANGANESE	9.9	9.0 - 33.0	ug/L	
Molybdenum	1.27	0.60 - 2.00	ug/L	
Selenium.	199.0	190.0 - 500.0	ug/L	
Vanadium	0.44	0.10 - 0.50	ug/L	
Copper.	0.88 *H	0.52 - 0.80	mg/L	
Magnesium.	41.0	39.0 - 58.0	mg/L	
Zinc.	9.14	8.60 - 14.50	mg/L	

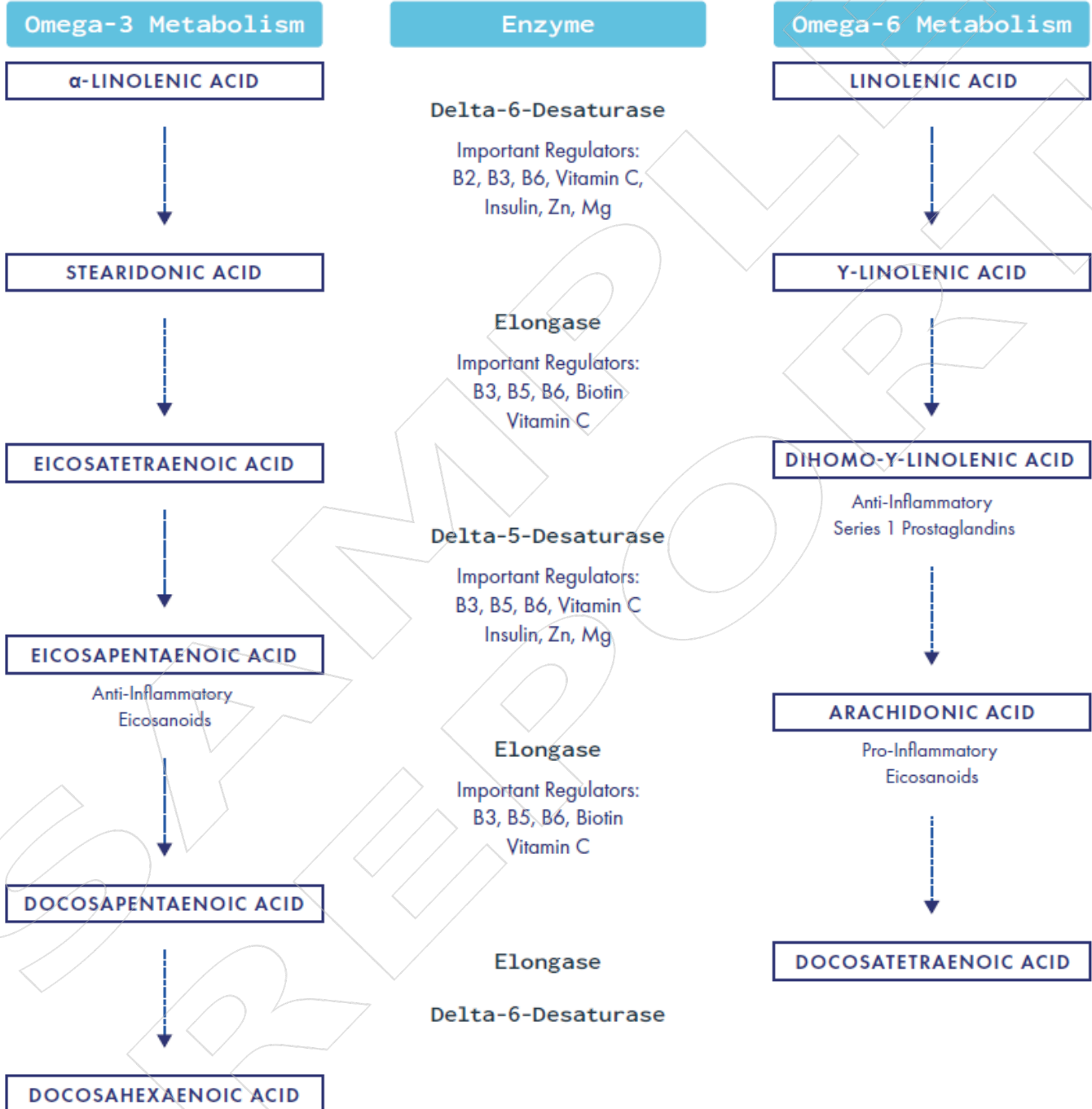
Metal Analysis

BLOOD - WHOLE	Result	Range	Units	
ALUMINIUM	0.00	0.00 - 30.00	ug/L	
Antimony	2.00	0.00 - 3.50	ug/L	
ARSENIC	0.00	0.00 - 10.00	ug/L	
BERYLLIUM	0.00	0.00 - 4.00	ug/L	
Bismuth	0.00	0.00 - 1.00	ug/L	
CADMIUM	0.00	0.00 - 1.10	ug/L	
LEAD	0.00	0.00 - 90.00	ug/L	
MERCURY	3.60 *H	0.00 - 2.00	ug/L	
NICKEL	0.00	0.00 - 2.00	ug/L	
Platinum	0.00	0.00 - 0.40	ug/L	
Silver	0.00	0.00 - 2.00	ug/L	
Thallium	0.00	0.00 - 0.60	ug/L	
Tin	0.00	0.00 - 1.30	ug/L	
Uranium	0.00	0.00 - 0.10	ug/L	
Zirconium	0.00	0.00 - 3.00	ug/L	

CU/ZN & Free Copper Index

BLOOD - SERUM	Result	Range	Units	
Copper:	147 *H	70.0 - 140.0	ug/dL	
Zinc, Plasma:	65	58.0 - 124.0	ug/dL	
Copper/Zinc Ratio:	2.3 *H	0.8 - 1.0	RATIO	
Ceruloplasmin:	47.0 *H	16.0 - 45.0	mg/dl	
% Free Copper:	5.5	< 20.0	%	

Essential Fatty Acid Pathways



Essential Fatty Acids

BLOOD - EDTA

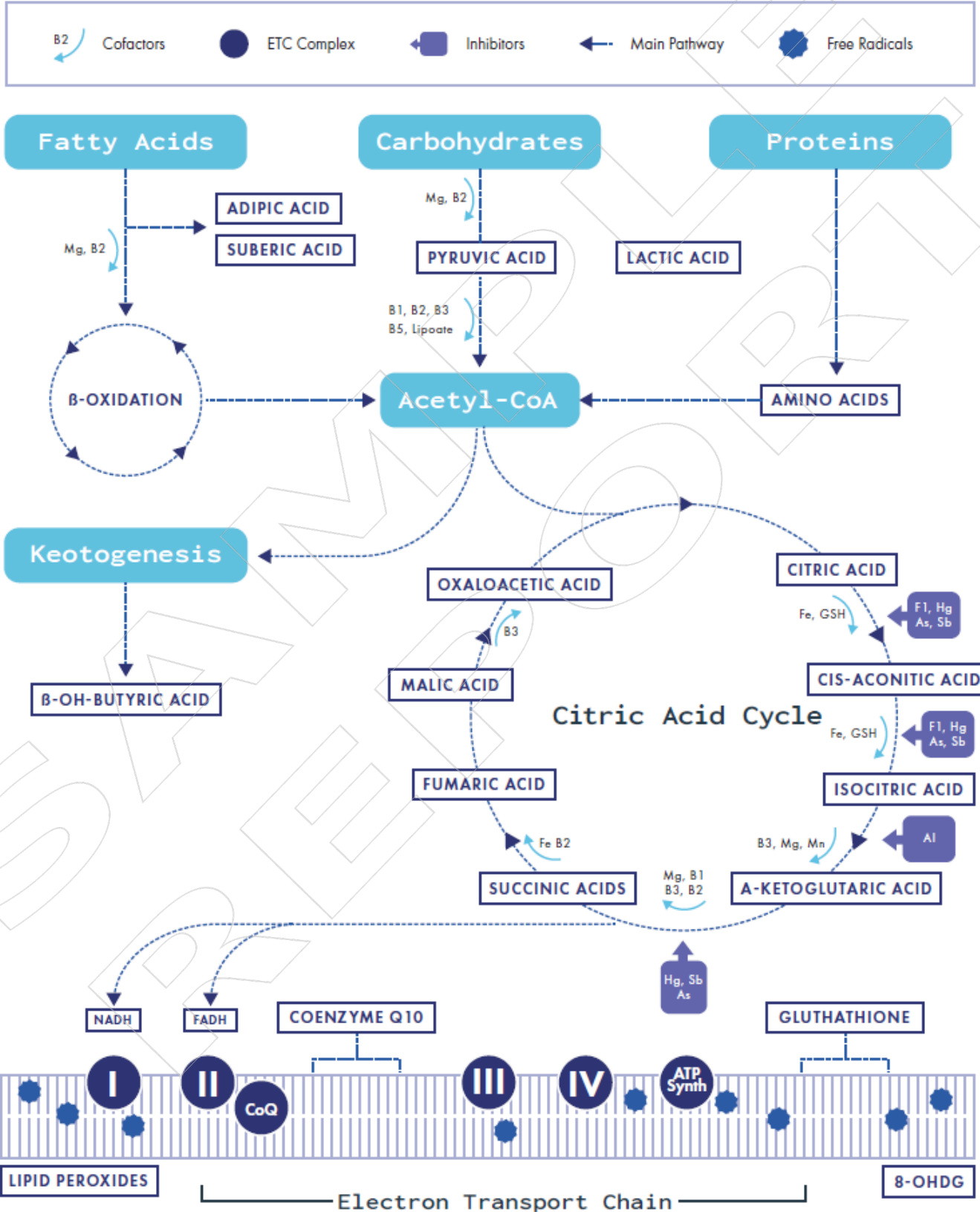
RED CELL FATTY ACID PROFILE

Red Cell Fatty Acid Summary

	Result	Range	Units	
Saturated Fats, Total	36.34	29.89 - 42.10	%	
Monounsaturated Fats, Total	22.55	15.65 - 31.82	%	
Omega 3, Total	5.75	2.57 - 15.15	%	
Omega 6, Total	34.94	24.85 - 44.15	%	
Omega 3/Omega 6 Ratio	0.2 *L	0.4 - 0.5	RATIO	
Omega 6/Omega 3 Ratio	6.1	1.9 - 14.6	RATIO	
AA/EPA ratio	9.5	1.1 - 69.2	RATIO	
OMEGA 3 INDEX	5.67		%	
Delta 6 Desaturase Activity	20.5 *H	6.0 - 12.3	RATIO	
Omega 3 Fatty Acids				
alpha Linolenic Acid	0.41	0.10 - 1.90	%	
Eicosapentanoic Acid	0.95	0.14 - 6.92	%	
Docosapentanoic Acid	1.51	0.53 - 2.81	%	
Docosahexanoic Acid	2.88	1.00 - 6.50	%	
Total Omega 3 Fatty acids	5.74	2.57 - 15.15	%	
Omega 6 Fatty Acids				
Linoleic Acid	23.36	14.00 - 31.30	%	
gamma Linolenic Acid	0.26	0.05 - 0.72	%	
Eicosadienoic Acid	0.21	0.10 - 0.43	%	
Dihomo-g-linolenic Acid	1.14	0.50 - 2.50	%	
Arachidonic Acid	9.00	5.00 - 14.80	%	
Docosatetraenoic Acid	0.78	0.30 - 2.50	%	
Docosapentaenoic Acid (n6)	0.19	0.08 - 0.83	%	
Total Omega 6 Fatty Acids	34.94	24.85 - 44.15	%	
Monounsaturated Fats				
Palmitoleic Acid	0.60	0.13 - 2.90	%	
Oleic Acid	21.09	14.20 - 29.50	%	
Gondoic Acid	0.23	0.10 - 0.77	%	
Nervonic Acid	0.63	0.13 - 1.96	%	
Total Monounsaturated Fats	22.55	15.65 - 31.82	%	
Total Omega 9 Fatty Acids	21.95 *H	16.00 - 20.60	%	
Saturated Fatty acids				
Myristic Acid	0.57	0.10 - 2.45	%	
Palmitic Acid	20.84	17.50 - 27.10	%	
Stearic Acid	13.11	8.40 - 15.00	%	
Arachidic Acid	0.57 *H	0.10 - 0.53	%	
Behenic Acid	0.62	0.20 - 1.59	%	
Lignoceric Acid	0.63	0.20 - 1.92	%	
Total Saturated Fats	35.98	29.89 - 42.10	%	
Trans Fatty Acid Profile				
Trans Palmitoleic Acid	0.13	0.10 - 2.45	%	
Trans Oleic Acid	0.41	0.00 - 0.51	%	
Trans Linoleic Fatty Acid	0.27	0.07 - 0.92	%	
Trans Fatty Acids, Total	0.80	0.30 - 2.02	%	
Trans Fat Index	0.68	0.22 - 1.99	%	

Amino Acids				
BLOOD - LI HEPARI	Result	Range	Units	
AMINO ACIDS, Plasma				
Essential Amino Acids				
Arginine	85.0	28.0 - 108	umol/L	
Histidine	72.1	65.0 - 104	umol/L	
Isoleucine	53.3	30.0 - 75.0	umol/L	
Leucine	73.4 *L	77.0 - 155	umol/L	
Lysine	134	105 - 207	umol/L	
Methionine	24.0	15.0 - 32.0	umol/L	
Phenylalanine	55.9	42.0 - 62.0	umol/L	
Taurine	43.3	27.0 - 95.0	umol/L	
Threonine	156	75.0 - 197	umol/L	
Tryptophane	17.0	15.0 - 53.0	umol/L	
Valine	147 *L	150 - 250	umol/L	
Total Branched Chain AAs	273 *L	324 - 557	umol/L	
Non-Essential Amino Acids				
Alanine	344	218 - 474	umol/L	
Asparagine	53.6	26.0 - 74.0	umol/L	
Aspartate	0.5	0.0 - 6.0	umol/L	
Cystine	38.0	31.0 - 50.0	umol/L	
GABA	31.8	0.0 - 50.0	umol/L	
Glutamic Acid	23.6	6.0 - 47.0	umol/L	
Glutamine	476	340 - 740	umol/L	
Proline	126	97.0 - 240	umol/L	
Tyrosine	70.6	26.0 - 80.0	umol/L	
Large Neutral Amino Acids (LNAA)	399.6		umol/L	
Intermediary Metabolites				
alpha-Amino adipic Acid	3.2	0.0 - 6.0	umol/L	
alpha-Aminobutyric Acid	8.5	5.0 - 35.0	umol/L	
beta-Aminoisobutyric Acid	2.5	0.0 - 10.0	umol/L	
Cystathionine	1.0	0.0 - 3.0	umol/L	
Citrulline	9.3 *L	10.0 - 55.0	umol/L	
Ornithine	47.0	36.0 - 96.0	umol/L	
Urea	1.0 *L	2.8 - 8.1	mmol/L	
Glycine	377	100 - 384	umol/L	
Serine	130	70.0 - 175	umol/L	
Phosphoserine	7.3	2.0 - 14.0	umol/L	
Sarcosine	38.5 *H	0.0 - 19.5	umol/L	
Dietary Peptide Related Markers				
1-Methyl Histidine	12.1	1.0 - 42.0	umol/L	
3-Methyl Histidine	2.5	0.0 - 5.0	umol/L	
beta-Alanine	10.7	0.0 - 12.0	umol/L	
Anserine	0.0	0.0 - 43.0	umol/L	
Carnosine	3.4	0.0 - 10.0	umol/L	
Hydroxyproline	11.4	0.0 - 53.0	umol/L	
Hydroxylysine	3.1	2.0 - 5.0	umol/L	
Amino Acid Functional Ratios				
Phenylalanine/Tyrosine	0.79	< 2.00	RATIO	
Glutamate/Glutamine	0.05 *L	0.06 - 0.23	RATIO	
Hydroxyproline/Proline	0.09	< 0.50	RATIO	
a-Amino-n-Butyrate/Leucine	0.12	< 0.2	RATIO	
Tryptophan/LNAA	0.04	0.04 - 0.10	RATIO	

Organic Acid Pathways



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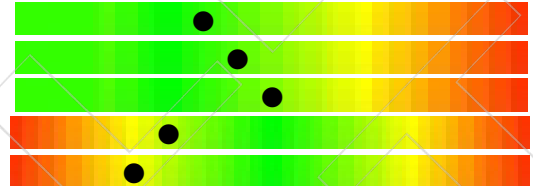
Nutrient Markers

URINE, SPOT

KETONE/FATTY ACID Metabolites

(Carnitine & B2)

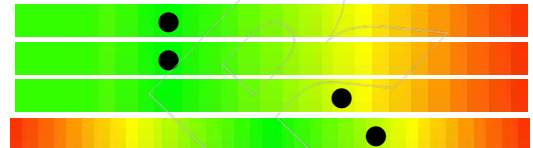
1. Adipic Acid.	3.60	0.00 - 11.10 ug/mgCR
2. Suberic Acid.	2.10	0.00 - 4.60 ug/mgCR
3. Ethylmalonic Acid	4.10	0.00 - 6.30 ug/mgCR
4. Pimelic Acid	12.0	5.9 - 31.8 ug/mgCR
5. Methyl-Succinic Acid	5.50	3.20 - 21.10 ug/mgCR



CARBOHYDRATE Metabolism/Glycolysis

(B1, B3, Cr, Lipoic Acid, CoQ10)

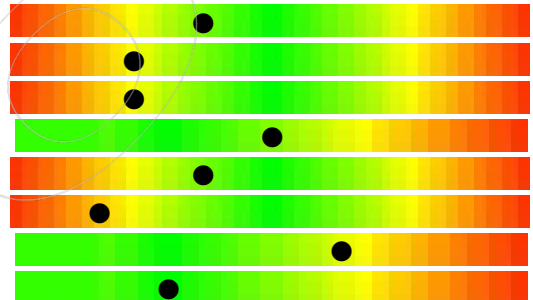
6. Pyruvic Acid.	1.60	0.00 - 6.40 ug/mgCR
7. Lactic Acid.	3.50	0.00 - 16.40 ug/mgCR
8. b-OH-Butyric Acid	8.60	0.00 - 9.90 ug/mgCR
9. Glucose (OA)	1.1	0.3 - 1.1 mmol/L



CITRIC ACID CYCLE Metabolites.

(B Comp., CoQ10, Amino Acids, Mg)

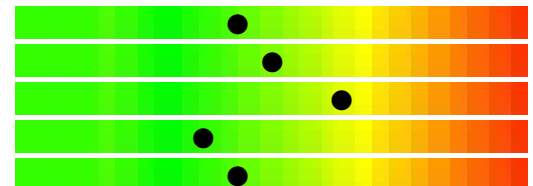
10. Citric Acid.	450.0	56.0 - 987.0 ug/mgCR
11. cis-Aconitic Acid.	29.0	18.0 - 78.0 ug/mgCR
12. Isocitric Acid.	49.0	35.0 - 143.0 ug/mgCR
13. a-Ketoglutaric Acid.	21.00	0.00 - 35.00 ug/mgCR
14. Succinic Acid	9.50	1.10 - 20.90 ug/mgCR
15. Fumaric Acid.	1.10	1.10 - 1.35 ug/mgCR
16. Malic Acid.	2.90	0.00 - 3.10 ug/mgCR
17. b-OH-b-Methylglutaric Acid	1.20	0.00 - 5.10 ug/mgCR



B-Complex Vitamins & Amino Acid Markers

(B1, B2, B3, B5, B6, Biotin)

18. a-Ketoisovaleric Acid	0.24	0.00 - 0.49 ug/mgCR
19. a-Ketoisocaproic Acid	0.30	0.00 - 0.52 ug/mgCR
20. a-Keto-b-Methylvaleric Acid	0.95	0.00 - 1.10 ug/mgCR
21. Xanthurenic Acid	0.2	0.0 - 0.5 ug/mgCR
22. beta-Hydroxyisovaleric Acid	5.50	0.00 - 11.50 ug/mgCR



METHYLATION COFACTORS

(B12, Folate)

23. Methylmalonic Acid.	2.90 *H	0.00 - 2.30 ug/mgCR
24. Formiminoglutamic Acid **	1.4	0.0 - 2.2 ug/mgCR

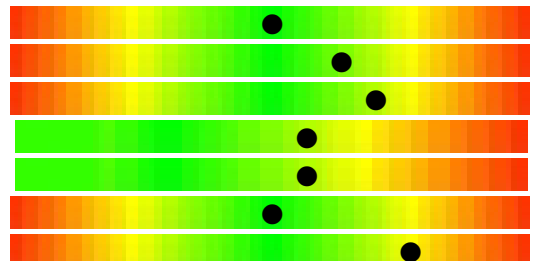


Cell Regulation Markers

NEUROTRANSMITTER METABOLISM

(Tyrosine, Tryptophan, B6, Antioxidants)

25. Homovanillic Acid (HVA)	5.00	1.40 - 7.60 ug/mgCR
26. Vanillylmandelic Acid (VMA)	4.60	1.20 - 5.30 ug/mgCR
27. 5-Hydroxyindoleacetic Acid (5HIAA)	9.60	1.60 - 9.80 ug/mgCR
28. Kynurenic Acid.	1.1	0.0 - 1.5 ug/mgCR
29. Quinolinic Acid (OA)	4.70	0.00 - 5.80 ug/mgCR
30. Picolinic Acid	10.0	2.8 - 13.5 ug/mgCR
31. Cortisol (OA)	555 *H	166 - 507 nmol/L



Methodology: Liquid Chromatography with tandem mass spectrometry (LC-MS-MS).

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Oxidative Damage/AntiOxidant Markers

(Vitamin C and Other Antioxidants)

32.	ParaHydroxyphenyllactate	0.57	0.00 - 0.66 ug/mgCR	
33.	8 OH-deoxyguanosine	3.8	0.0 - 7.6 ug/mgCR	

Toxicants and Detoxification

DETOXIFICATION INDICATORS

(Arg, NAC, Met, Mg, Antioxidants)

34.	2-Methylhippuric Acid	<dl	0.00 - 0.19 ug/mgCR	
35.	Orotic Acid.	0.96	0.00 - 1.01 ug/mgCR	
36.	Glucaric Acid.	5.6	0.0 - 10.7 ug/mgCR	
37.	a-OH-Butyric Acid	0.77	0.00 - 0.90 ug/mgCR	
38.	Pyroglutamic Acid.	33.00	28.00 - 88.00g/mgCR	

Compounds of Bacterial or Yeast/Fungal Origin

BACTERIAL DYSBIOSIS MARKERS.

39.	Benzoate (OA)	18.00 *H	0.00 - 9.30 ug/mgCR	
40.	Hippurate (OA)	944	0.0 - 1070 ug/mgCR	
41.	Phenylacetate	5.6 *H	0.0 - 0.2 ug/mgCR	
42.	Phenylpropionate	2.3 *H	0.0 - 0.1 ug/mgCR	
43.	ParaHydroxyBenzoate	3.5 *H	0.0 - 1.8 ug/mgCR	
44.	p-HydroxyPhenylacetate	24.0	0.0 - 34.0 ug/mgCR	
45.	Indoleacetic Acid	57.00	0.00 - 90.00ug/mgCR	
46.	Tricarballylate	0.95	0.00 - 1.41 ug/mgCR	

L. acidophilus/General Bacteria

47.	D-Lactate	0.9	0.0 - 4.1 ug/mgCR	
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CLOSTRIDIAL SPECIES

48.	Dihydroxyphenylpropionic Acid	0.1 *H	0.0 - 0.1 ug/mgCR	
49.	4-Cresol	11.0	0.0 - 75.0 ug/mgCR	
50.	3-OH-Propionic Acid	2.0	0.0 - 208.0 ug/mgCR	

YEAST/FUNGAL DYSBIOSIS MARKERS.

51.	Arabinitol	5.0	0.0 - 73.0 ug/mgCR	
52.	Citramalic Acid	3.1	0.0 - 3.6 ug/mgCR	
53.	Tartaric Acid.	4.0	0.0 - 7.0 ug/mgCR	

Oxalate Metabolites

54.	Oxalic Acid	5.60	0.77 - 7.00 ug/mgCR	
55.	Glyceric Acid	21.0	16.0 - 117.0ug/mgCR	
56.	Glycolic Acid	14.0	6.8 - 101.0 ug/mgCR	

Nutritional Markers

57.	Pyridoxic Acid (Vit B6)	5.0	0.0 - 34.0 ug/mgCR	
58.	Pantothenic Acid (Vit B5)	6.0	0.0 - 10.0 ug/mgCR	
59.	Glutaric Acid (Vit B2) **	0.2	0.0 - 0.4 ug/mgCR	
60.	Ascorbic Acid (Vit C)	9.0 *L	10.0 - 200 ug/mgCR	
61.	CoEnzyme-Q10 (CoQ10) **	15.00	0.17 - 39.00ug/mgCR	
62.	N-Acetylcysteine (NAC)	0.14	0.00 - 0.28 ug/mgCR	
63.	Biotin (Vit H)	2.10	0.19 - 2.70 ug/mgCR	

Creatinine, Urine Spot.	8.0	5.0 - 11.0 mmol/L	
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Results reported as <dl = Less than detectable limit ** A high value for this marker may indicate a deficiency of this vitamin

Methodology: Liquid Chromatography with tandem mass spectrometry (LC-MS-MS).