

Comprehensive Health Status Array

Biomarkers measured

METABOLIC HEALTH (BLOOD-SERUM)

CHOLESTEROL
TRIGLYCERIDES
HDL(Protective)
Non-HDL Cholesterol
LDL(Atherogenic)
LDL/HDL RATIO (Risk Factor)
Lipoprotein (a)
Apolipoprotein B
Apolipoprotein A-1
RATIO (APO B / APO A-1)
HIGH SEN CRP
Very Low Density Lipoprotein (VLDL)
Intermediate Density Lipoprotein (IDL-1)
Intermediate Density Lipoprotein (IDL-2)
Intermediate Density Lipoprotein (IDL-3)
Low Density Lipoprotein (LDL-1)
Low Density Lipoprotein (LDL-2)
Low Density Lipoprotein (LDL-3)
Low Density Lipoprotein (LDL-4)
Low Density Lipoprotein (LDL-5)
Low Density Lipoprotein (LDL-6)
Low Density Lipoprotein (LDL-7)
LDL Phenotype Pattern
Mean Particle Size
HOMOCYSTEINE
FIBRINOGEN
GLUCOSE (FASTING)
INSULIN (FASTING)

RENAL UREA ELECTROLYTES AND CREATININE (UEC)

SODIUM
POTASSIUM
CHLORIDE
BICARBONATE
Anion Gap
UREA
CREATININE (mmol/L)
Creatinine

LIVER FUNCTION TESTS

BILIRUBIN (TOTAL)
ALP
GGT
ALT
AST
PROTEIN - TOTAL
ALBUMIN
GLOBULIN

IRON STUDIES

IRON
TRANSFERRIN
Transferrin Saturation
FERRITIN
Activated Vitamin B12
SERUM FOLATE
25 OH VITAMIN D

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THYROID FUNCTION HEALTH (BLOOD - SERUM)

TSH
FREE T4
FREE T3
Reverse T3
FT3 : Reverse T3 Ratio (X 100)
THYROID PEROXIDASE Ab.
ANTITHYROGLOBULIN Ab.
TSH RECEPTOR AB

HORMONE HEALTH

PROGESTERONE
DHEA Sulphate
TESTOSTERONE
Sex Hormone Binding Globulin
Calc Free Testosterone (Vermeulen)
ESTRADIOL

MINERAL ANALYSIS (BLOOD - RED CELL)

Chromium
COBALT
Iodine
MANGANESE
Molybdenum
Selenium
Vanadium
Copper
Magnesium
Zinc

METALS ANALYSIS (BLOOD - WHOLE)

ALUMINIUM
Antimony
ARSENIC
BERYLLIUM
Bismuth
CADMIUM
LEAD
MERCURY
NICKEL
Platinum
Silver
Thallium
Tin
Uranium
Zirconium

CU/ZN & Free Copper Index (BLOOD - PLASMA):

COPPER
ZINC
Copper/Zinc Ratio
CAERULOPLASMIN
% Free Copper

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ESSENTIAL FATTY ACIDS (BLOOD - EDTA)

Red Cell Fatty Acid Summary:

Saturated Fats, Total
 Monounsaturated Fats, Total
 Omega 3, Total
 Omega 6, Total
 Omega 3/Omega 6 Ratio
 Omega 6/Omega 3 Ratio
 AA/EPA ratio
 OMEGA 3 INDEX
 Delta 6 Desaturase Activity

Omega 3 Fatty Acids:

alpha Linolenic Acid
 Eicosapentaenoic Acid
 Docosapentaenoic Acid
 Docosahexaenoic Acid
 Total Omega 3 Fatty acids

Omega 6 Fatty Acids

Linoleic Acid
 gamma Linolenic Acid
 Eicosadienoic Acid
 Dihomo-g-linolenic Acid
 Arachidonic Acid
 Docosatetraenoic Acid
 Docosapentaenoic Acid (n6)
 Total Omega 6 Fatty Acids

Monounsaturated Fats

Palmitoleic Acid
 Oleic Acid
 Gondoic Acid
 Nervonic Acid
 Total Monounsaturated Fats
 Total Omega 9 Fatty Acids

ESSENTIAL FATTY ACIDS (BLOOD - EDTA)

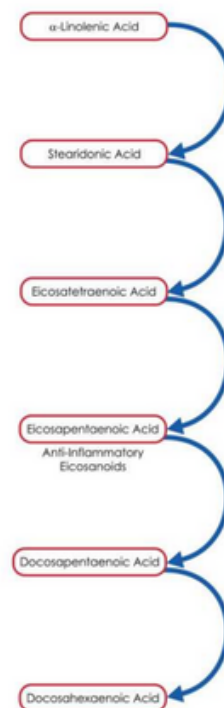
Saturated Fatty acids:

Myristic Acid
 Palmitic Acid
 Stearic Acid
 Arachidic Acid
 Behenic Acid
 Lignoceric Acid
 Total Saturated Fats

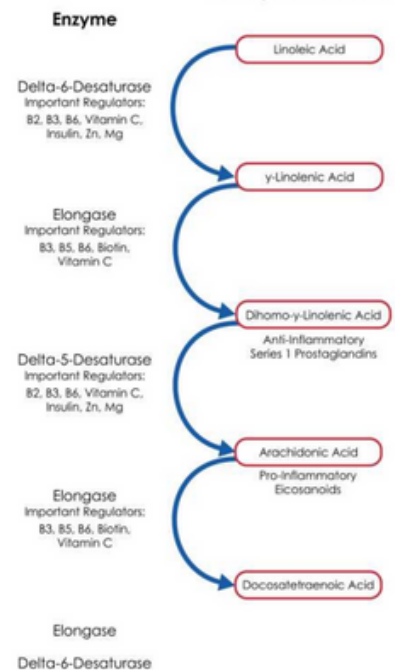
Trans Fatty Acid Profile:

Trans Palmitoleic Acid
 Trans Oleic Acid
 Trans Linoleic Fatty Acid
 Trans Fatty Acids, Total
 Trans Fat Index

Omega-3 Metabolism



Omega-6 Metabolism



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AMINO ACIDS (PLASMA)

Essential Amino Acids:

Arginine
Histidine
Isoleucine
Leucine
Lysine
Methionine
Phenylalanine
Taurine
Threonine
Tryptophane
Valine
Total Branched Chain AAs

Non-Essential Amino Acids:

Alanine
Asparagine
Aspartate
Cystine
GABA
Glutamic Acid
Glutamine
Proline
Tyrosine
Large Neutral Amino Acids (LNAA)

AMINO ACIDS (PLASMA)

Intermediary Metabolites:

alpha-Amino adipic Acid
alpha-Aminobutyric Acid
beta-Aminoisobutyric Acid
Cystathionine
Citrulline
Ornithine
Urea
Glycine
Serine
Phosphoserine
Sarcosine

Dietary Peptide Related Markers:

1-Methyl Histidine
3-Methyl Histidine
beta-Alanine
Anserine
Carnosine
Hydroxyproline
Hydroxylysine

Amino Acid Functional Ratios:

Phenylalanine/Tyrosine
Glutamate/Glutamine
Hydroxyproline/Proline
alpha-Amino-n-Butyrate/Leucine
Tryptophan/LNAA

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ORGANIC ACIDS

KETONE/FATTY ACID Metabolites:

Adipic Acid
Suberic Acid
Ethylmalonic Acid
Pimelic Acid
Methyl-Succinic Acid

CARBOHYDRATE Metabolism/Glycolysis:

Pyruvic Acid
Lactic Acid
b-OH-Butyric Acid
Glucose (OA)

CITRIC ACID CYCLE (KREBS) Metabolites

Citric Acid
cis-Aconitic Acid
Isocitric Acid
a-Ketoglutaric Acid
Succinic Acid
Fumaric Acid
Malic Acid
b-OH-b-Methylglutaric Acid

B-Complex Vitamins & Amino Acid Markers:

a-Ketoisovaleric Acid
a-Ketoisocaproic Acid
a-Keto-b-Methylvaleric Acid
Xanthurenic Acid
beta-Hydroxyisovaleric Acid

METHYLATION COFACTORS:

Methylmalonic Acid
Formiminoglutamic Acid

ORGANIC ACIDS

NEUROTRANSMITTER METABOLISM:

Homovanillic Acid (HVA)
Vanillylmandelic Acid (VMA)
5-Hydroxyindoleacetic Acid (5HIAA)
Kynurenic Acid
Quinolinic Acid (OA)
Picolinic Acid
Cortisol (OA)

Oxidative Damage/Anti-Oxidant Markers:

ParaHydroxyphenyllactate
8 OH-deoxyguanosine

DETOXIFICATION INDICATORS:

2-Methylhippuric Acid
Orotic Acid
Glucaric Acid
a-OH-Butyric Acid
Pyroglutamic Acid

BACTERIAL DYSBIOSIS MARKERS:

Benzoate (OA)
Hippurate (OA)
Phenylacetate
Phenylpropionate
ParaHydroxyBenzoate
p-HydroxyPhenylacetate
Indoleacetic Acid
Tricarballylate

L. acidophilus/General Bacteria:

D-Lactate

CLOSTRIDIAL SPECIES:

Dihydroxyphenylpropionic Acid
4-Cresol
3-OH-Propionic Acid

YEAST/FUNGAL DYSBIOSIS MARKERS:

Arabinitol
Citramalic Acid
Tartaric Acid

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Citramalic Acid

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ORGANIC ACIDS

Oxalate Metabolites:

Oxalic Acid

Glyceric Acid

Glycolic Acid

Nutritional Markers:

Pyridoxic Acid (Vit B6)

Pantothenic Acid (Vit B5)

Glutaric Acid (Vit B2)

Ascorbic Acid (Vit C)

CoEnzyme-Q10 (CoQ10)

N-Acetylcysteine (NAC)

Biotin (Vit H)

