



Test Name	Matrix	Methodology	Requested Volume	Collection Container
2, 3-dinor-8-iso Prostaglandin F2α	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
2,3-dinor iPF1α III	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
2,3-dinor-11B-Prostaglandin F2α	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
8,12-iso-iPF2α VI	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
8-hydroxy guanosine	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
8-Hydroxy-2-deoxy guanosine	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
8-iso-Prostaglandin F2α (iPF2α-III)	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
8-iso-15(R) Prostaglandin F2 α	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
11B-Prostaglandin F2 α	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
Adiponectin	Serum	ELISA	100uL	SST tube
ADMA	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Alanine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Alanine Aminotrasferase (ALT)	Serum	Photometric	1mL	SST tube
Albumin	Serum	Photometric	1mL	SST tube
	RBCs (whole blood)			EDTA tube
alpha-Linolenic Acid (ALA) C18:3ω3	Serum	GC/FID	2mL	SST tube
Alkaline Phosphatase	Serum	Photometric	1mL	SST tube
Aluminum	Serum	ICP-MS	2mL	TMF tube
Amino Acids	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
ADMA	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Alanine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Arginine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Asparagine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Aspartic acid	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Cysteine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Glutamic acid	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Glutamine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Glycine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Histidine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
IsoLeucine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Leucine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Lysine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Methionine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Phenylalanine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Proline	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Sarcosine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
SDMA	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Serline	Plasma	LC/MS/MS	500uL	Sodium Heparin tube



Test Name	Matrix	Methodology	Requested Volume	Collection Container
Amino Acids (Continued)	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Threonine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Tryptophan	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Tyrosine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Valine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Antimony	Serum	ICP-MS	2mL	TMF tube
Apolipoprotein A, Quantitative	Serum	Turbidimetric	1mL	SST tube
Apolipoprotein B Quantitative	Serum	Turbidimetric	1mL	SST tube
Arachidic Acid C20:0	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Arachidonic Acid (AA)C20:4ω6	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Arachidonic Acid ω3(AAW3)C20:4ω3	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Arginine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Arsenic	Serum	ICP-MS	2mL	TMF tube
Ascorbic Acid Analysis, Total	Serum	HPLC	500uL	TMF tube
Asparagine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Aspartate transaminase	Serum	Photometric	1mL	SST Tube
Aspartic acid	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Behenic Acid C22:0	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Beryllium	Serum	ICP-MS	2mL	TMF tube
Bilirubin, Direct	Serum	Photometric	150uL	SST tube
Bilirubin, Total	Serum	Photometric	1mL	SST tube
BUN (Urea Nitrogen)	Serum	Photometric	1mL	SST tube
Cadmium	Serum, Urine	ICP-MS	2mL, 2mL	TMF tube, Urine cup
Calcium	Serum	Photometric	150uL	SST tube
Carbon Dioxide (CO2)	Serum	Photometric	1mL	SST tube
Carotene-Alpha	Serum	HPLC	1mL	Amber SST tube
Carotene-Beta	Serum	HPLC	1mL	Amber SST tube
Ceramide	RBCs (whole blood)	LC/MS/MS	1mL	EDTA tube
Chloride	Serum	Photometric	1mL	SST tube
	Serum		1mL	SST tube
	Plasma		1mL	EDTA tube,
Chlorotyrosine	Urine	LC-MS-MS	2mL	Urine cup
Cholesterol	Serum	Photometric	1mL	SST tube

Test Name	Matrix	Methodology	Requested Volume	Collection Container
Chromium	Serum, Urine	GFAA	2mL, 2mL	TMF tube, Urine cup
Cobalt	Serum, Urine	ICP-MS	2mL, 2mL	TMF tube, Urine cup
Coenzyme Q10	Serum	HPLC	1mL	Amber SST tube
Complete Blood Count w/diff (CBC)	Whole blood	Coulter Principle	5mL	EDTA tube
Copper	Serum	ICP-MS	2mL	TMF tube
Cortisol	Serum	Chemiluminescence	260uL	SST tube
C-Reactive Protein, High Sen.	Serum	Chemiluminescence	255mL	SST tube
Creatinine Kinase	Serum	Photometric	150uL	SST tube
Creatinine	Serum	Photometric	1mL	SST tube
Cryptoxanthin-Beta	Serum	HPLC	1mL	Amber SST tube
Cysteine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Cystatin C	Serum	Turbidimetric	1.0mL	SST tube
DHEA-SO4	Serum	Chemiluminescence	255uL	SST tube
Di-homo-g-linolenic Acid (DGLA) C20:3ω6	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube
	Serum		1mL	SST tube
Dityrosine	Plasma		1mL	EDTA tube
	Urine	LC-MS-MS	2mL	Urine cup
DNA Damage				
8-hydroxy Guanosine	Serum, Urine	LC-MS-MS	1mL, 2mL	SST Tube, Urine cup
8-Hydroxy-2-deoxy Guanosine	Serum, Urine	LC-MS-MS	1mL, 2mL	SST Tube, Urine cup
Docosadienoic Acid C22:2ω6	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube
Docosahexaenoic Acid (DHA) C22:6ω3	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube
Docosapentaenoic acid (DPA) C22:5ω3	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube
Eicosadienoic Acid C20:2ω6	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube
Eicosapentaenoic Acid (EPA)C20:5ω3	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube
Eicosatrienoic Acid C20:3ω3	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube
Eicosenoic Acid c20:1ω9	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube
Elaidic Acid C18:1ω9t	RBCs (whole blood),			EDTA tube
	Serum	GC/FID	2mL	SST tube



Test Name	Matrix	Methodology	Requested Volume	Collection Container
Erucic Acid c22:1ω9	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Estradiol	Serum	Chemiluminescence	275uL	SST tube
Free Fatty Acid Panel	RBCs (whole blood) Serum	GC-FID	2mL 2mL	EDTA tube SST tube
C15:1ω5cis 10-Pentadecenoic Acid				
C16:0 Palmitic Acid				
C16:1ω7c Palmitoleic Acid				
C17:0 Heptadecanoic Acid				
C17:1ω7 Heptadaecanoic Acid				
C18:0 Stearic Acid				
C18:1ω9c Oleic Acid				
C18:1ω9t Elaidic Acid				
C18:2ω6c Linoleic Acid (LA)				
C18:2ω6t Linolelaidic Acid				
C18:3ω3, alpha-Linolenic Acid (ALA)				
C18:3ω6 gamma-linolenic Acid (GLA)				
C20:0 Arachidic Acid				
c20:1ω9 Eicosenoic Acid				
C20:2ω6 Eicosadienoic Acid				
C20:3ω3 Eicosatrienoic Acid				
C20:3ω6 Dihomo-g-linolenic Acid (DGLA)				
C20:4ω6 Arachidonic Acid (AA)				
C20:5ω3 Eicosapentaenoic Acid (EPA)				
C21:0 Heneicosanoic Acid				
C22:0 Behenic Acid				
c22:1ω9 Erucic Acid				
C22:2ω6 Docosadienoic Acid				
C22:6ω3 Docosahexaenoic Acid (DHA)				



Test Name	Matrix	Methodology	Requested Volume	Collection Container
Free Fatty Acid Panel (Continued)	RBCs (whole blood)		2mL	EDTA tube
	Serum	GC-FID	2mL	SST tube
	C23:0 Tricosanoic Acid			
	C24:0 Lignoceric Acid			
C24:1ω9c Nervonic Acid				
Free Fatty Acid Panel - Omega 6/3-RBC	RBCs (whole blood)		2mL	EDTA tube
	Serum	GC-FID	2mL	SST tube
	C18:3ω3, A-Linolenic Acid (ALA)			
	C20:4ω3 Arachidonic Acid w3(AAW3)			
	C22:6ω3 Docosahexaenoic Acid (DHA)			
	C22:5ω3 Docosapentaenoic acid (DPA)			
	C20:3ω6 Dihomo-g-linolenic Acid (DGLA)			
	C20:4ω6 Arachidonic Acid w6(AAW6)			
	C18:3ω6 r-linolenic Acid (GLA)			
	C18:2ω6c Linoleic Acid (LA)			
	C20:5ω3 Eicosapentaenoic Acid (EPA)			
	C18:4ω3 Stearidonic acid (SDA)			
	C22:2ω6 Docosadienoic Acid			
	C20:2ω6 Eicosadienoic Acid			
	C20:3w3 Eicosatrienoic (ETA)			
Ferritin	Serum	Chemiluminescence	260uL	SST tube
Fibrinogen	Plasma	Photo-optical	Full Tube	Citrate tube
Folic Acid	Serum	Chemiluminescence	300uL	SST tube
Follicle-stimulating hormone (FSH)	Serum	Chemiluminescence	300uL	SST tube
Gamma-glutamyl transpeptidase	Serum	Photometric	1mL	SST tube
gamma-linolenic Acid (GLA)C18:3ω6	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Globulin	Serum	Calculation		SST tube
Glucose	Serum	Photometric	150uL	SST tube
Glutamic acid	Plasma	LC/MS/MS	500uL	Sodium Heparin tube

Test Name	Matrix	Methodology	Requested Volume	Collection Container
Glutamine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Glutathione	Whole blood	ELISA	2mL	EDTA tube
Glutathione Peroxidase	Plasma, Serum	Kinetic	500uL	Heparin tube, SST
Glutathione Panel				
Glutathione, Reduced (GSH)	Whole Blood	LC-MS-MS	100 uL	EDTA tube
Glutathione, Oxidized (GSSG)	Whole Blood	LC-MS-MS	100 uL	EDTA tube
Glutathione Total		Calculation		
GSH:GSSG ratio		Calculation		
Glycine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
hCG – beta, qualitative	Serum, Urine	antibody	1mL, 2mL	SST, Urine cup
HDL- cholesterol	Serum	Photometric	1mL	SST tube
Hemoglobin A1C	Whole Blood	Photometric	1mL	EDTA tube
Heneicosanoic Acid C21:0	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Heptadacanoic Acid C17:1ω7	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Heptadecanoic Acid C17:0	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Histidine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Homocysteine	Serum	Chemiluminescence	265uL	SST tube
IGF-1	Serum	Chemiluminescence	270uL	SST tube
Insulin	Serum	Chemiluminescence	350uL	SST tube
Interleukin-6 (IL-6)	Serum	ELISA	1mL	SST tube
Interleukin-8 (IL-8)	Serum	ELISA	1mL	SST tube
IPF2-α –VI	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
iPF2α – VI	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
Iron	Serum	Photometric	1mL	SST tube
Iron Binding Capacity, Unsaturated	Serum	Photometric	150uL	SST tube
Isoleucine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Lactate Dehydrogenase (LDH)	Serum	Photometric	1mL	SST tube
LDL (Direct)	Serum	Photometric	1mL	SST tube
Lead	Serum	ICP-MS	2mL	TMF tube
Leptin	Serum	ELISA	1mL	SST tube
Leucine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Leukotriene E4 (LTE4)	Urine	LC/MS/MS	2.2mL	Urine cup
LH	Serum	Chemiluminescence	325uL	SST tube

Test Name	Matrix	Methodology	Requested Volume	Collection Container
Lignoceric Acid C24:0	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Linoleic Acid (LA) C18:2 ω 6c	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Linolelaidic Acid C18:2 ω 6t	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Lipid Peroxidation (Isoprostanes)				
8-iso-Prostaglandin F2 α (iPF2 α -III)	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
iPF2 α - VI	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
2, 3 -dinor-8-iso Prostaglandin F2 α	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
8,12-iso-iPF2 α VI	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
8-iso-15(R) Prostaglandin F2 α	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
2,3-dinor iPF1 α -III	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
2,3-dinor-11B-Prostaglandin F2 α	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
11B-Prostaglandin F2 α	Serum, Urine	LC-MS-MS	1.1mL, 2mL	SST tube, Urine cup
Lipoprotein a	Serum	Turbidimetric	1mL	SST tube
Lutein	Serum	HPLC	1mL	Amber SST tube
Lycopene	Serum	HPLC	1mL	Amber SST tube
Lymphocyte Subset Panel (Flow)				
CD3+ (absolute)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD3+ (percentage)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD3+CD4+ (absolute)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD3+CD4+ (percentage)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD3+CD8+ (absolute)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD3+CD8+ (percentage)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD3-CD56+ NK cells (absolute)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD3-CD56+ NK cells (percentage)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD19+ (absolute)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD19+ (percentage)	Whole blood	Flow Cytometry	4mL	EDTA tube
CD4:CD8 ratio	Whole blood	Flow Cytometry	4mL	EDTA tube
Lysine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Magnesium	Serum	Photometric	1mL	SST tube
Manganese	Serum	ICP-MS	2mL	TMF tube
Mercury	Serum	ICP-MS	2mL	TMF tube
Methionine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube



Test Name	Matrix	Methodology	Requested Volume	Collection Container
Molybdenum	Serum, Urine	ICP-MS	2mL, 2mL	TMF tube, Urine cup
Nervonic Acid C24:1ω9c	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Nickel	Serum, Urine	ICP-MS	2mL, 2mL	TMF tube, Urine cup
Nitrotyrosine	Serum	LC-MS-MS	1mL	SST tube
	Plasma		1mL	EDTA tube
	Urine		2mL	Urine cup
Oleic Acid C18:1ω9c	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Palladium	Serum	ICP-MS	2mL	TMF tube
Palmitic Acid C16:0	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
	RBCs (whole blood), Serum			EDTA tube SST tube
Palmitoleic Acid C16:1ω7c	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Pentadecenoic Acid C15:1ω5cis 10	RBCs (whole blood), Serum	GC/FID	2mL	EDTA tube SST tube
Phenylalanine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Phosphorus	Serum	Photometric	1mL	SST tube
Platinum	Serum	ICP-MS	2mL	TMF tube
Potassium	Serum	Photometric	150uL	SST tube
Progesterone	Serum	Chemiluminescence	275uL	SST tube
Prolactin	Serum	Chemiluminescence	275uL	SST tube
Protein Oxidation				
Chlorotyrosine	Serum	LC-MS-MS	1mL	SST tube
	Plasma		1mL	EDTA tube
	Urine		2mL	Urine cup
Dityrosine	Serum	LC-MS-MS	1mL	SST tube
	Plasma		1mL	EDTA tube
	Urine		2mL	Urine cup
Nitrotyrosine	Serum	LC-MS-MS	1mL	SST tube
	Plasma		1mL	EDTA tube
	Urine		2mL	Urine cup
Proline	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Prothombin Time (PT) INR Value	Plasma	MTX	5mL	Citrate Tub
PSA, Total	Serum	Chemiluminescence	300uL	SST tube
PTH	Serum	Chemiluminescence	300uL	SST tube



Test Name	Matrix	Methodology	Requested Volume	Collection Container
PTT	Plasma	Photo-optics	5mL	Citrate tube
Retinol	Serum	HPLC	1mL	Amber SST tube
Retinyl Palmitate	Serum	HPLC	1mL	Amber SST tube
Ruthenium (water)	Water	ICP-MS	8mL	TMF tube
Sarcosine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
SDMA	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Selenium	Serum, Urine	ICP-MS	2mL, 2mL	TMF tube, Urine cup
Serline	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
SHBG	Serum	Chemiluminescence	260uL	SST tube
Sodium	Serum	Photometric	1mL	SST tube
Sphingomyelin	Whole Blood	LC/MS/MS	1mL	EDTA tube
Stearic Acid C18:0	RBCs (whole blood),	GC/FID	2mL	EDTA tube
	Serum			SST tube
Stearidonic acid (SDA) C18:4ω3	RBCs (whole blood),	GC/FID	2mL	EDTA tube
	Serum			SST tube
Strontium	Serum	ICP-MS	2mL	TMF tube
T3 Free	Serum	Chemiluminescence	350uL	SST tube
T3 Total	Serum	Chemiluminescence	275uL	SST tube
T4 Free	Serum	Chemiluminescence	260uL	SST tube
T4 Total	Serum	Chemiluminescence	265uL	SST tube
Testosterone, bioavailable	Serum	Chemiluminescence	270uL	SST tube
Testosterone, total	Serum	Chemiluminescence	270uL	SST tube
Thallium	Serum	ICP-MS	2mL	TMF tube
Threonine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Tin	Serum, Urine	ICP-MS	2mL, 2mL	TMF tube, Urine cup
Titanium	Serum	ICP-MS	2mL	TMF tube
Tocopherol-Alpha	Serum	HPLC	1mL	Amber SST tube
Tocopherol-Delta	Serum	HPLC	1mL	Amber SST tube
Tocopherol-Gamma	Serum	HPLC	1mL	Amber SST tube
Total Protein	Serum	Photometric	1mL	SST tube
TPO	Serum	Chemiluminescence	255uL	SST tube
Trace Metals (Elements, Ions)				
Aluminum	Serum	ICP-MS	2mL	TMF tube
Antimony	Serum	ICP-MS	2mL	TMF tube
Arsenic	Serum	ICP-MS	2mL	TMF tube
Beryllium	Serum	ICP-MS	2mL	TMF tube
Cadmium	Serum	ICP-MS	2mL	TMF tube
Chromium	Serum	GFAA	300uL	TMF tube



Test Name	Matrix	Methodology	Requested Volume	Collection Container
Trace Metals (Elements, Ions) Continued				
Cobalt	Serum	ICP-MS	2mL	TMF tube
Copper	Serum	ICP-MS	2mL	TMF tube
Lead	Serum	ICP-MS	2mL	TMF tube
Manganese	Serum	ICP-MS	2mL	TMF tube
Mercury	Serum	ICP-MS	2mL	TMF tube
Molybdenum	Serum	ICP-MS	2mL	TMF tube
Nickel	Serum	ICP-MS	2mL	TMF tube
Selenium	Serum	ICP-MS	2mL	TMF tube
Strontium	Serum	ICP-MS	2mL	TMF tube
Thallium	Serum	ICP-MS	2mL	TMF tube
Tin	Serum	ICP-MS	2mL	TMF tube
Zinc	Serum	ICP-MS	2mL	TMF tube
Transferrin	Serum	Turbidimetric	10uL	SST tube
	RBCs (whole blood),			EDTA tube
Tricosanoic Acid C23:0	Serum	GC/FID	2mL	SST tube
Triglycerides	Serum	Photometric	1mL	SST tube
Tryptophan	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
TSH	Serum	Chemiluminescence	325uL	SST tube
Tumor Necrosis Factor Alpha (TNF-a)	Serum	ELISA	1mL	SST tube
Tyrosine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
Uric Acid	Serum	Photometric	1mL	SST tube
Urinalysis with micro	Urine	Colorimetric/Micro	12mL	Urine cup
Valine	Plasma	LC/MS/MS	500uL	Sodium Heparin tube
VCAM	Serum	ELISA	1mL	SST tube
VEGF	Serum	ELISA	1mL	SST tube
Vitamin B1 (Thiamine)	Plasma	LC/MS/MS	500 uL	EDTA tube
Vitamin B2 (Riboflavin)	Plasma	LC/MS/MS	500 uL	EDTA tube
Vitamin B3 (Niacin)	Plasma	LC/MS/MS	500 uL	EDTA tube
Vitamin B5 (Pantothenic Acid)	Plasma	LC/MS/MS	500 uL	EDTA tube
Vitamin B6 (B6a, B6 PLP)	Plasma	LC/MS/MS	500 uL	EDTA tube
Vitamin B7 (Biotin)	Plasma	LC/MS/MS	500 uL	EDTA tube
Vitamin B Panel (1,2,3,5,6,7)	Plasma	LC/MS/MS	500 uL	EDTA tube
Vitamin B12	Serum	Chemiluminescence	325uL	Amber SST tube
Vitamin D2	Serum	HPLC	2mL	Amber SST tube
Vitamin D3	Serum	HPLC	2mL	Amber SST tube



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Test Name	Matrix	Methodology	Requested Volume	Collection Container
Zeaxanthin	Serum	HPLC	1mL	Amber SST tube
Zinc	Serum	ICP-MS	2mL	TMF tube

602.667.5625 • www.KronosScience.com

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Test Name	Matrix	Methodology	Requested Volume	Collection Container
Individual Tests				
2,3-dinor-8-iso Prostaglandin F2α	Calcium	Folic Acid	LH	
2,3-dinor iPF1a-III	Carbon Dioxide (CO2)	Follicle-stimulating hormone	Lignoceric Acid C24:0	
2,3-dinor-11B-Prostaglandin F2a	Carotene-Alpha	gamma-linolenic Acid (GLA)C18:3ω6	Linoleic Acid (LA) C18:2ω6c	
8,12-iso-iPF2α VI	Carotene-Beta	Gamma-glutamyl transpeptidase	Linoleic Acid C18:2ω6t	
8-hydroxy Guanosine	Ceramide	Globulin	Lipoprotein a	
8-Hydroxy-2-deoxy Guanosine	Chloride	Glucose	Lutein	
8-iso-Prostaglandin F2α (iPF2α-III)	Chlorotyrosine	Glutamic acid	Lycopene	
8-iso-15 (R) Prostaglandin F2a	Cholesterol	Glutamine	Lysine	
11B-Prostaglandin F2a	Chromium	Glutathione, Reduced (GSH)	Magnesium	
Adiponectin	Cobalt	Glutathione, Oxidized (GSSG)	Manganese	
ADMA	Coenzyme Q10	Glycine	Mercury	
Alanine	Complete Blood Count w/ diff	hCG –beta qualitative	Methionine	
Alanine Aminotransferase (ALT)	Copper	HDL- cholesterol	Molybdenum	
Albumin	Cortisol	Hemoglobin A1C	Nervonic Acid C24:1ω9c	
A-Linolenic Acid (ALA) C18:3ω3	C-Reactive Protein, High Sensitivity	Heneicosanoic Acid C21:0	Nickel	
Alkaline Phosphatase	Creatinine Kinase	Heptadecanoic Acid C17:1ω7	Nitrotyrosine	
Aluminum	Creatinine	Heptadecanoic Acid C17:0	Oleic Acid C18:1ω9c	
Antimony	Cryptoxanthin-Beta	Histidine	Palladium	
Apolipoprotein A, Quantitative	Cystatin C	Homocysteine	Palmitic Acid C16:0	
Apolipoprotein B Quantitative	Cysteine	IGF-1	Palmitoleic Acid C16:1ω7c	
Arachidic Acid C20:0	DHEA-SO4	Insulin	Pentadecenoic Acid C15:1ω5cis 10	
Arachidonic Acid (AA)C20:4ω6	Dihomo-g-linolenic Acid C20:3ω6	Interleukin-6	Phenylalanine	
Arginine	Dityrosine	Interleukin-8	Phosphorus	
Arsenic	Docosadienoic Acid C22:2ω6	iPF2α –III	Platinum	
Ascorbic Acid Analysis, Total	Docosahexaenoic Acid C22:6ω3	iPF2α – VI	Potassium	
Asparagine	Eicosadienoic Acid C20:2ω6	Iron	Progesterone	
Aspartate Transferase	Eicosapentaenoic Acid C20:5ω3	Iron Binding Capacity, Unsaturated	Prolactin	
Aspartic acid	Eicosatrienoic Acid C20:3ω3	Isoleucine	Proline	
Behenic Acid C22:0	Eicosenoic Acid c20:1ω9	Lactate Dehydrogenase (LDH)	Prothombin Time (PT) INR Value	
Beryllium	Elaidic Acid C18:1ω9t	LDL (Direct)	PSA, Total	
Bilirubin, Direct	Erucic Acid c22:1ω9	Lead	PTH	
Bilirubin, Total	Estradiol	Leptin	PTT	
BUN (Urea Nitrogen)	Ferritin	Leucine	Retinol	
Cadmium	Fibrinogen	Leukotriene E4 (LTE4)	Retinyl Palmitate	



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Test Name	Matrix	Methodology	Requested Volume	Collection Container
Ruthenium (water)	T4 Free	TPO	VEGF	
Sarcosine	T4 Total	Transferrin	Vitamin B1 (Thiamine)	
SDMA	Thallium	Tricosanoic Acid C23:0	Vitamin B2 (Riboflavin)	
Selenium	Tin	Triglycerides	Vitamin B3 (Niacin)	
Serine	Titanium	Tryptophan	Vitamin B5 (Pantothenic Acid)	
SHBG	Tocopherol-Alpha	TSH	Vitamin B6 (B6a, B6 PLP)	
Sodium	Tocopherol-Delta	Tumor Necrosis Factor Alpha	Vitamin B7 (Biotin)	
Sphingomyelin	Tocopherol-Gamma	Tyrosine	Vitamin B12	
Stearic Acid C18:0	Total Protein	Uric Acid	Vitamin D2	
Strontium	Testosterone, bioavailable	Valine	Vitamin D3	
T3 Free	Testosterone, total	Urinalysis w/ microscopic	Zeaxanthin	
T3 Total	Threonine	VCAM	Zinc	

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Test Name	Matrix	Methodology	Requested Volume	Collection Container
Panels				
Fatty Acid Analysis- 27	Free Fatty Acid Panel Omega 6/3	Vitamin B Panel	Amino Acid Panel	
C15:1 ω 5cis 10-Pentadecenoid Acid	C18:3 ω 3, A-Linolenic Acid (ALA)	Vitamin B1 (Thiamine)	Alanine	
C16:0 Palmitic Acid	C20:4 ω 3 Arachidonic Acid w 3(AAW3)	Vitamin B2 (Riboflavin)	Arginine	
C16:1 ω 7c Palmitoleic Acid	C22:6 ω 3 Docosahexaenoic Acid (DHA)	Vitamin B3 (Niacin)	Asparagine	
C17:0 Heptadecanoic Acid	C22:5 ω 3 Docosapentaenoic acid (DPA)	Vitamin B5 (Pantothenic Acid)	Aspartic acid	
C17:1 ω 7 Heptadaecanoic Acid	C20:3 ω 6 Dihomo-g-linolenic Acid(DGLA)	Vitamin B6 (B6a, B6 PLP)	Cysteine	
C18:0 Stearic Acid	C20:4 ω 6 Arachidonic Acid w 6(AA)	Vitamin B7 (Biotin)	Glutamic acid	
C18:1 ω 9c Oleic Acid	C18:3 ω 6 r-linolenic Acid (GLA)		Glutamine	
C18:1 ω 9t Elaidic Acid	C18:2 ω 6c Linoleic Acid (LA)	Glutathione Panel	Glycine	
C18:2 ω 6c Linoleic Acid (LA)	C20:5 ω 3 Eicosapentaenoic Acid (EPA)	Glutathione, Reduced (GSH)	Histidine	
C18:2 ω 6t Linolelaidic Acid	C18:4 ω 3 Stearidonic acid (SDA)	Glutathione, Oxidized (GSSG)	Isoleucine	
C18:3 ω 3, A-Linolenic Acid (ALA)	C22:2 ω 6 Docosadienoic Acid	Glutathione Total	Leucine	
C18:3 ω 6 r-linolenic Acid (GLA)	C20:2 ω 6 Eicosadienoic Acid	GSH:GSSG ratio	Lysine	
C20:0 Arachidic Acid	C20:3 ω 3 Eicosatrienoic (ETA)		Methionine	
C20:1 ω 9 Eicosenoic Acid	GSH:GSSG ratio	Protein Oxidation Panel	Phenylalanine	
C20:2 ω 6 Eicosadienoic Acid		Chlorotyrosine	Proline	
C20:3 ω 3 Eicosatrienoic Acid	Lymphocyte Subset Panel (Flow Cytometry)	Dityrosine	Sarcosine	
C20:3 ω 6 Dihomo-g-linolenic Acid (DGLA)	CD3+ (absolute)	Nitrotyrosine	Serline	
C20:4 ω 6 Arachidonic Acid (AA)	CD3+ (percentage)		Threonine	
C20:5 ω 3 Eicosapentaenoic Acid (EPA)	CD3+CD4+ (absolute)	Carotenoid Panel	Tryptophan	
C21:0 Heneicosanoic Acid	CD3+CD4+ (percentage)	Carotene-Alpha	Tyrosine	
C22:0 Behenic Acid	CD3+CD8+ (absolute)	Carotene-Beta	Valine	
C22:1 ω 9 Erucic Acid	CD3+CD8+ (percentage)	Cryptoxanthin-Beta		
C22:2 ω 6 Docosadienoic Acid	CD3-CD56+ NK cells (absolute)	Lutein	Arginine Amino Acid Panel	
C22:6 ω 3 Docosahexaenoic Acid (DHA)	CD3-CD56+ NK cells (percentage)	Lycopene	ADMA	
C23:0 Tricosanoic Acid	CD19+ (absolute)	Retinol	Arginine	
C24:0 Lignoceric Acid	CD19+ (percentage)	Retinyl Palmitate	Arginine/ADMA Ratio	
C24:1 ω 9c Nervonic Acid	CD4:CD8 ratio	Zeaxanthin	SDMA	
		Tocopherol-Alpha		
		Tocopherol-Delta		
DNA Damage		Tocopherol-Gamma		
8-hydroxy Guanosine				
8-Hydroxy-2-deoxy Guanosine				

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