

CELLULAR MICRONUTRIENT ASSAY

Patient Information

PATIENT II, PRETEND

Name:

Lab Director	
Dr. Jennifer Spiegel	MD

Date of Birth:	11/04/1977	Gender:	F	Lab ID:	68220
Date Received:	02/11/2010	Date Collected:	01/01/2010	Date Reported:	09/24/2019
Physician:	Sample Physician			Clinic ID:	10804



IMPORTANT! Identified adverse food reactions- allergies, sensitivities, and intolerances- should be avoided even if these cellular tests have shown those food sources of micronutrients/botanicals to be "beneficial". The AMA and APA test the responses of B and T lymphocytes, not antibodies (IgE-mediated allergies) or cells of the innate immune system (Alcat Test). Patients and practitioners are encouraged to carefully read all product/supplement labels and avoid all ingredients that are contraindicated for any reason.



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Significant Micronutrients

L-Tyrosine

Tyrosine is a non-essential amino acid that is synthesized in the body from an essential amino acid, phenylalanine. Important for: • Building block for protein synthesis • Synthesis of the brain chemicals, dopamine, norepinephrine, and epinephrine • Regulation of mood, appetite, pain sensitivity • Thyroid, adrenal, and pituitary function May be useful for the prevention/treatment of: depression, ADHD, cognitive performance and memory, narcolepsy, acute stress, alcohol, heroine, and cocaine withdrawal Good food sources: poultry, fish, avocados, almonds, cheese, milk, yogurt, bananas, soybean, legumes, nuts, seeds, and some grains

Vitamin B6

Pyridoxine helps convert food into fuel and is a cofactor for more than 50 different enzymes. Important for: • Metabolism of fats and proteins • Nerve function • Steroid hormone function • Arterial integrity • Immune function • Synthesis of niacin from tryptophan • Breakdown of homocysteine May be useful for the prevention/treatment of: atherosclerosis, hair loss, acne, Meniere's disease, taste disorders, vertigo, neurological conditions, gestational diabetes, premenstrual syndrome, anxiety, ADHD cognitive decline, depression, and possibly some protection from certain toxin induced issues Good food sources: Poultry, fish, organ meats, potatoes, banana, seeds, soybeans, spinach, whole grains, legumes

Biotin

Biotin is an essential B vitamin also known as vitamin B7. Important for: • The conversion of carbohydrates, proteins and fats into energy. • Health of skin, nails, eyes, liver, and nervous system. May be useful for the prevention/treatment of: diabetes, brittle nails, seborrheic dermatitis of infancy, MS, and uremic neuropathy Good food sources: meat, fish, egg yolks, liver, poultry, dairy products, seeds, nuts, sweet potatoes, spinach, and broccoli

Vitamin C

Vitamin C (ascorbic acid) is a water soluble vitamin that is essential for human survival. Important for: • Antioxidation • Anti-inflammation • Immune function • Blood vessel formation • Muscle formation • Collagen production • Brain Health/neurotransmitter production • Absorption of iron • Blood lipid regulation • Detoxification May be useful for the prevention/treatment of: allergic rhinitis, cardiovascular issues, sinusitis, GI issues- constipation, gallstones, gastritis, cold and flu, UTIs, muscle cramps, dysfunctional uterine bleeding, glaucoma, depression, asthma, certain types of cancer, diabetes, obesity, and post exercise muscle soreness Good food sources: citrus fruits, raspberries, strawberries pineapple, kiwi, cantaloupe, greens, cruciferous vegetables- Brussels sprouts, broccoli, squash, green beans, carrots, potatoes, tomatoes, peppers

Cysteine

L-cysteine is classified as a "semi-essential" amino acid manufactured from methionine. It is made in small amounts by the liver, but the availability of methionine is necessary **Important for:** • Protein synthesis • Support of the synthesis of glutathione, the body's "master antioxidant" • Immune support • Lipid metabolism • Digestive support • Vascular support • Antioxidation • Anti-inflammation • Nerve protection • Detoxification **May be useful for the prevention/treatment of:** Alzheimer's disease, Parkinson's disease, arthritis, poor intestinal health, dementia, multiple sclerosis, male infertility, and osteoporosis **Good food sources:** beef, pork, chicken, sunflower seeds, walnuts, and soy

Iron

Iron is a mineral found in trace amounts in every cell in the body. Most of the iron in the body is found in the hemoglobin of red blood cells that carries oxygen from the lungs to the tissues of the body and in myoglobin, a protein providing oxygen to muscles. It also functions in several key enzymes in energy production and metabolism, including DNA synthesis. Important for: • Oxygen transport • Growth and development • Immune activity • Energy production and metabolism • Hormone, neurotransmitter, and DNA synthesis May be useful for the prevention/treatment of: ADHD, cognitive decline/dementia, fatigue, infertility, and restless leg syndrome. Good food sources: Iron exists in foods in two forms, heme iron and nonheme iron. The richest sources of heme iron are oysters, liver, lean red beef, poultry, tuna, and salmon. Non-heme iron is harder for the body to absorb. Sources of non-heme iron are legumes, whole grains, nuts, dried fruit, and greens. Consuming these foods with vitamin C rich foods and/or heme sources of iron, enhances the absorption of nonheme iron.

Vitamin B2

Vitamin B2, or riboflavin, is an essential vitamin involved in vital metabolic processes. It is a component of two major coenzymes flavin mononucleotide (FMN-aka riboflavin-5-phosphate) and flavin adenine dinucleotide (FAD). Important for: • Normal cell function, growth and development • Metabolism of carbohydrate, protein, and fat for energy production. • Cofactor needed to produce glutathione, a very important antioxidant • Homocysteine metabolism • Promotes iron metabolism • Metabolism of steroids and certain drugs May be useful for the prevention/treatment of: migraines, Parkinson's disease, hyperhomocysteinemia, and psoriasis Good food sources: turkey, sardines, eggs, legumes, soybeans, broccoli, cauliflower, Brussels sprouts, peppers, root vegetables, and squash

Vitamin K1

Vitamin K is a general name of a family of compounds with a common chemical structure-Vitamin K1 (phylloquinone or phytonadione), vitamin K2 (menaquinone), and vitamin K3 (menadione- no longer used in fortified foods/supplements). Vitamin K1 is the primary source of vitamin K that humans obtain through foods. **Important for:** • Regulation of blood clotting • Transport of calcium and bone metabolism • Potential antioxidant protection, and insulin sensitivity support, protection of cells lining blood vessels **May be useful for the prevention/treatment of:** atherosclerosis/ischemic heart disease, nausea hemorrhagic disease of newborns, vomiting of pregnancy, and osteoporosis **Good food sources:** green tea, leafy greens such as kale, turnip greens, and spinach, broccoli, Brussels sprouts, asparagus, cabbage, other vegetables.



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High γ - δ Tocopherol

Vitamin E is a group of eight fat soluble compounds that have varying levels of biological activity. They include four tocopherols (alpha, beta, gamma and delta) and four tocotrienols (alpha, beta, gamma, and delta). Gamma-delta tocopherol comprises about 70% of the vitamin E in a typical American eating pattern. It has very low vitamin E activity but some of its biological effects may be more pronounced than the effects of alphatocopherol, the only isomer of vitamin E officially recognized as capable of meeting human requirements. Although gamma tocopherol is not capable of preventing manifestations of vitamin E deficiency, it does appear to have beneficial properties. There is some concern that high doses of vitamin E might have a pro-oxidant rather than an antioxidant effect. High doses of alpha-tocopherol alone might disrupt the normal antioxidant balance and decrease the effect of gamma tocopherol and other vitamin E isomers. No major roles for delta and beta tocopherol have been defined although mixed tocopherols including all tocopherols have been used and have shown benefit. Important for: • Antioxidation, prevention of free radical damage • Immune support • Regulation of gene expression • Heart and blood vessel protection, dilation, and inhibits platelet aggregation (gamma and delta tocopherol) • Anti-inflammation May be useful for the prevention/treatment of: And more effective than alpha tocopherol in... prostate cancer inhibition, oxidative DNA damage reduction, increase in superoxide dismutase activity, inhibition of platelet aggregation, scavenging of peroxynitrate, a powerful oxidative agent believed to play a role in CVD, cancer, and neurodegenerative diseases, regulation of extracellular fluid volume and blood pressure. Good food sources: walnuts, corn oil, soybean oil, flaxseed oil. Some research suggests gamma tocopherol might be transformed to alphatocopherol by intestinal microflora

Vitamin B9

Vitamin B9, more commonly known as folate (naturally-occurring form of B9) or folic acid (a synthetic form), is a water-soluble vitamin that is part of the B vitamin family. Important for: • Growth and development • Homocysteine and vitamin B12 metabolism • Brain and CNS function • Immune system function • Cardiovascular support • Red blood cell production • Reproductive health May be useful for the prevention/treatment of: Alzheimer's disease, cardiovascular disease, homocysteine lowering, anemia, migraines, restless legs, dermatitis, autism, depression, cognitive decline/dementia, age-related macular degeneration, birth defects, diarrhea, hearing loss, osteoporosis, cervical dysplasia, ulcerative colitis, and recurrent miscarriages Good food sources: Spinach and other leafy greens, green vegetables, beets, banana, melon, legumes, yeast, mushrooms, oranges and tomato juice.

Vitamin D

Vitamin D, known as the "sunshine" vitamin, is a fat soluble vitamin produced by the body in response to sun exposure; it is naturally present in few foods. It functions as a prohormone. Important for: • Calcium absorption in the gut • Bone development, bone mineralization, bone health • Regulation of serum calcium and phosphorous levels • Neuromuscular and immune function and maturation of white blood cells • Cell growth • Enhancement of insulin secretion/action • Reduction of inflammation May be useful for the prevention/treatment of: eczema, colds, hepatitis C, osteomalacia/osteoporosis, asthma, burns, cancer, CHF, Crohn's disease, depression, diabetes ,fatigue, Parkinson's disease, PCOS, lupus, and more Good food sources: oily fish -salmon, sardines, herring, mackerel, and tuna, cod liver oil , fortified milk, eggs, liver

Methionine

Methionine is an essential amino acid that is involved in the synthesis of important protein molecules and other amino acids. Important for: • The support of detoxification of toxins and heavy metals • Antioxidant function • Digestive support • The availability of folate • The support of healthy liver function • Reduction of histamine in blood • Exercise recovery, connective tissue production, and cardiovascular health • Hair and nail strength May be useful for the prevention/treatment of: pancreatitis, Parkinson's disease, urinary tract infections, and diaper rash Good food sources: Brazil nuts, meat, poultry, fish, yogurt, cheese, eggs, legumes, soybeans, sesame seeds, and grains

Arginine

L-arginine is an amino acid, a building block for protein synthesis, and is best known for its effects on the vascular system. Important for:
Vasodilation – dilatation and relaxation of blood vessels • Wound healing and enhancement of the immune system • Ammonia detoxification May be useful for the prevention/treatment of: anal fissure, congestive heart failure, erectile dysfunction, pre-eclampsia, sickle cell disease, esophageal spasm, infertility, interstitial cystitis, and Raynaud's disease Good food sources: meat, poultry, fish, dairy products, peanuts, nuts, seeds, whole grains, legumes, and chocolate.

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No Significant Re	esponse	Protective		Highly Protective			
	Antioxidants / Anti-inflammatories						
Andrographis	V	Highly Protective	Maitake	V			
Astaxanthin	▼	•	Mangosteen	V	Protective		
Astragalus	▼	Protective	Omega 3 DHA	V			
Beta-Carotene	<u> </u>	■ Highly Protective	Omega 3 EPA	V			
Catalase	V	Protective	Omega 6	▼			
Chlorophyll	<u>*</u>	■ Highly Protective	Omega 7	V			
Coenzyme Q10	▼	•	Omega 9	V			
Delta tocotrienol	▼	•	Pycnogenol	▼			
Echinacea	V	Protective	Pyrroloquinoline	V			
Elderberry	▼	•	Quercetin	V	Protective		
Frankincense	▼	•	Resveratrol	V	Protective		
Geranylgeraniol	▼	•	Rhodiola	▼			
Glutathione	▼	■ Highly Protective	Selenium	V			
Grape Seed	▼	•	Shiitake	▼	Protective		
Green Tea	<u> </u>	■ Highly Protective	SOD	▼			
High γ - δ Tocopherol	▼	■ Highly Protective	Turmeric	<u> </u>	■ Highly Protective		
Lavender	▼	•	Vitamin C	▼			
Lipoic Acid	V	•	Wild Cherry Bark	V			
Lutein	V	Highly Protective	Zeaxanthin	V			
Lycopene	V	•					

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Beneficial Items

Green Tea

Green tea is derived from the plant, Camellia sinensis. Green tea extract is simply green tea leaves prepared as a supplement. Green tea and its extracts, such as ECGC (Epigallocatechin gallate), a polyphenol, have been studied for their antioxidant effects and possible protective impact against heart disease and cancer. Important for/potential beneficial properties: • Immune support • Anti-inflammatory • Antioxidant • Anticoagulant/antiplatelet • Blood glucose regulation • Antilipemic • Antiviral • Bone support • Regulation of blood pressure • Protective against certain types of cancer • Stimulation of CNS • Improved cognitive performance • Reduction in dental plaque • Diuretic • Enhancement of muscular endurance in exercise • Increase in calorie and fat metabolism May be useful for the prevention/treatment of: elevated blood pressure, high cholesterol, heart disease, Insulin resistance, obesity, Alzheimer's disease, Parkinson's disease, cancer, inattentiveness, genital warts, and inflammation Sources: tea, supplemental form, capsules

Glutathione

Glutathione is produced in the liver from the amino acids, glycine, cysteine, and glutamic acid. It is considered the body's "master antioxidant". Important for/potential beneficial properties: • DNA synthesis and repair • Metabolism of toxins and carcinogens • Immune support • Prevention of oxidative cell damage • Protein and prostaglandin synthesis • Transport of amino acids • Antioxidation,-fights free radicals • Antiviral • Anti-inflammation May be useful for the prevention/treatment of: cancer, Parkinson's disease, neurodegenerative disorders, flu, AMD, glaucoma, cataracts, diabetes, heart disease, asthma (not inhaled glutathione), lung disease, liver disease, Gl disease, CFS, and side effects of chemotherapy Sources: Fruit, vegetables, and meat but glutathione is poorly absorbed from the Gl tract. Consuming foods used in cysteine production is recommended- onions, garlic, chives, leeks. Supplementing with N-acetyl L Cysteine can boost glutathione levels. Glutathione can be taken IV or in liposomal supplemental form.

High γ - δ
 Tocopherol

Vitamin E is a group of eight fat soluble compounds that have varying levels of biological activity. They include four tocopherols (alpha, beta, gamma and delta) and four tocotrienols (alpha, beta, gamma, and delta). Gamma-delta tocopherol comprises about 70% of the vitamin E in a typical American eating pattern. It has very low vitamin E activity but some of its biological effects may be more pronounced than the effects of alpha-tocopherol, the only isomer of vitamin E officially recognized as capable of meeting human requirements. Although gamma tocopherol is not capable of preventing manifestations of vitamin E deficiency, it does appear to have beneficial properties. There is some concern that high doses of vitamin E might have a pro-oxidant rather than an antioxidant effect. High doses of alpha-tocopherol alone might disrupt the normal antioxidant balance and decrease the effect of gamma tocopherol and other vitamin E isomers. No major roles for delta and beta tocopherol have been defined although mixed tocopherols including all tocopherols have been used and have shown benefit. Important for/potential beneficial properties: • Antioxidation, prevention of free radical damage • Immune support • Regulation of gene expression • Heart and blood vessel protection, dilation, and inhibits platelet aggregation (gamma and delta tocopherol) • Anti-inflammation May be useful for the prevention/treatment of: And more effective than alpha tocopherol in... prostate cancer inhibition, oxidative DNA damage reduction, increase in superoxide dismutase activity, inhibition of platelet aggregation, scavenging of peroxynitrate, a powerful oxidative agent believed to play a role in CVD, cancer, and neurodegenerative diseases, regulation of extracellular fluid volume and blood pressure.

Sources: walnuts, corn oil, soybean oil, flaxseed oil. Some research suggests gamma tocopherol might be transformed to alpha-tocopherol by intestinal microflora

Chlorophyll

Chlorophyll is a pigment that gives plants their green color. Important for/potential beneficial properties: • Anti-aging • Anti-cancer • Antiviral • Deodorant • Wound healing May be useful for the prevention/treatment of: acne, herpes simplex virus and shingles, lung and other types of cancer, pancreatitis, skin cancer, fatigue, arthritis, and fibromyalgia Sources: greens, chlorella, spirulina, alfalfa, parsley, broccoli, green cabbage, asparagus, green beans and peas, matcha green tea, wheat grass, algae and supplemental form.

Lutein

Lutein is a carotenoid vitamin, lutein is related to beta-carotene and is one of two major carotenoids (and zeaxanthin) found as a color pigment in the human eye. Important for/potential beneficial properties: • Antioxidation • light filter • Ocular protection May be useful for the prevention/treatment of: AMD, cataracts, cognitive decline, certain types of cancer, CVD, and diabetes Sources: kale, spinach, broccoli, corn, kiwi, grapes, orange juice, squash, egg yolk, pistachios

Beta-Carotene

Beta-Carotene is a pigmented, fat-soluble compound called a carotenoid. It is converted in part to vitamin A in the body. It is converted to retinal which is essential for vision. Then converted to retinoic acid, it is used in growth and cell differentiation. Important for/potential beneficial properties: • Anti-inflammatory • Antioxidant • Tumor cell growth inhibition • Cardiovascular protection • Immune enhancing May be useful for the prevention/treatment of: cognitive decline, dementia, AMD, breast cancer, GERD, sunburn, retinitis pigmentosa, erythropoietic protoporphyria, rash from sun exposure, and signs of aging Sources: green leafy vegetables-spinach, kale, collard greens, orange-yellow fruits and vegetables- sweet potato, carrots, pumpkin, squash, cantaloupe, bell peppers, broccoli, asparagus

Andrographis

Andrographis is a plant that is native to South Asian countries such as India and Sri Lanka. Known as the "King of bitters", it is commonly used in Ayurvedic medicine. Important for/potential beneficial properties: • Analgesic • Antibacterial • Anti-inflammatory • Antiplatelet • Anticancer • GI, cardiovascular, liver support • Blood glucose regulation • Immunomodulatory May be useful for the prevention/treatment of: common cold, influenza, tonsillitis, IBD- ulcerative colitis, and RA Sources: supplementation

Turmeric

Turmeric, a plant related to ginger, has been used in Ayurvedic medicine for many conditions including breathing problems, pain, and fatigue. It is a common spice and a major ingredient in curry powder. Important for/potential beneficial properties: • Anti-inflammatory • Antioxidation • Antibacterial • Antiseptic • Interference with cancer cell signaling • Blood glucose regulation • Fat metabolism • Wound healing May be useful for the prevention/treatment of: arthritis, joint pain, diabetes, digestive conditions- IBS, IBD, obesity, age-related cognitive decline, depression, high triglyceride blood levels, rheumatoid arthritis, and certain types of cancer Sources: Turmeric is a common spice and a major ingredient in curry powder. Turmeric's underground stems are dried and made into capsules, tablets, teas, powders, and extracts. Turmeric powder can also be made into a paste for skin issues.

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SCIENCE SYSTEMS	Patient Information	Name:	PATIENT I	I, PRETEND			
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Echinacea	Echinacea is a perennial wildflower native to North America and is closely related to sunflowers, daisies, and ragweed. Important for/potential beneficial properties: • Antibacterial • Anti-inflammatory • Anti-oxidant • Anti-vital • Immune stimulating • Wound healing May be useful for the prevention/treatment of: infections, common cold, herpes simplex infection (topical), psoriasis(topical), gum inflammation, upper respiratory tract infections (viral), tonsillitis, urinary tract infections, vaginal yeast infection, skin wounds/ulcers (topical), and leukopenia from chemotherapy. Sources: Echinacea is often sold as an herbal supplement.						
 Resveratrol 	Resveratrol is a naturally occurring polyphenol produced by plants to protect from threats to plants' survival- fungus, drought, inflammation, UV irradiation. Important for/potential beneficial properties: • Antioxidation • Anti-aging • Anti-cancer • Anti-inflammatory • Anti-cagulant • Anti-viral • Cardioprotective • Liver protection • Immune support • Neuroprotective • Pulmonary protection • Fat metabolism May be useful for the prevention/treatment of: Alzheimer's, cardiovascular disease, metabolic syndrome/obesity, diabetes, insulin resistance, cognitive decline, allergic rhinitis, certain types of cancer, and ulcerative colitis Sources: red wine, red grape skins, purple grape juice, mulberries, peanuts, mulberries, blueberries and bilberries, eucalyptus, and spruce						
Quercetin	Quercetin is an antioxidant that belongs to a class of water-soluble plant substances called flavonoids, which are present in certain fruits and vegetables Important for/potential beneficial properties: • Antioxidation • Inhibition of histamine release, anti-allergy • Enhancement of capillary and tissue integrity • Certain cancer risk reduction • Anti-inflammatory • Antiviral • Immune support • Glucose regulation • Inhibition of AGE formation May be useful for the prevention/treatment of: obesity, CVD, allergic rhinitis, Meniere's disease, diabetes, interstitial cystitis, prostatitis Sources: tea, onions, kale, watercress, elderberry, tomatoes, broccoli, green beans, asparagus, apples, and berries						
Shiitake	many health benefi system support • B	ts. Important for/potential ber	neficial properties: • A mor inhibition May be	nti-inflammatory • Antiouseful for the prevention	oxidant • Cardiovasc on/treatment of: Type	ooms, shows that this fungus provides ular support • Lipid lowering • Immune 2 diabetes, cardiovascular disease, stary supplements.	
 Astragalus 	Astragalus comes from the root of a perennial plant in the legume family that grows in the northern and eastern parts of China as well as in Mongolia and Korea. There are more than 2,000 species of astragalus but most astragalus supplements contain Astragalus membranaceus. Astragalus contains a variety of active constituents including more than 40 saponins, several flavonoids, polysaccharides, trace minerals, amino acids, and coumarins. — Astragalus is also called huang qi or milk vetch. Important for/potential beneficial properties: • Antibacterial • Anti-inflammatory • Antioxidant • Antiviral • Bone support • Cardiovascular support • Fertility –increase in sperm motility • Blood glucose support • Liver and kidney protective • Immune support • Vasorelaxant • Wound healing May be useful for the prevention/treatment of: common cold, upper respiratory infections, fibromyalgia, diabetes, blood pressure, heart disease, weakness, arthritis, hepatitis, breast and lung cancer, asthma, and anxiety Sources: The root of the astragalus plant is put in soups, teas, extracts, and capsules.						
Catalase	breaks down to sta Longevity support • dysfunction, cardia	ble and safe water and oxyger Fat metabolism • Support of c issues, and cataracts Sour ots, red peppers, turnips, cuc	en. Important for/pote f DNA integrity May b ces: wheat and barley	ntial beneficial propertion of the prevent of grass, alfalfa, Brusse	es: • Antioxidation • A ion/treatment of: deg Is sprouts, leeks, oni	o hydrogen peroxide which ultimately Anti-aging and anti-degenerative • generative disease, mitochondrial ons, broccoli, parsnips, zucchini, spinach, es, cherries, apricots, bananas,	
 Mangosteen 	properties: • Antioxi for the prevention/tr	idation • Anti-allergy • Antiba	cterial • Anti-inflamma jonorrhea, thrush, tub	atory • Antiviral • Immu perculosis, cardiovascu	ne support • Astringe	medicine. Important for/potential beneficial ent • Free radical scavenger May be useful I disorders, cancer, osteoarthritis,	



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Highly Protective

Proprietary Formulas					
Immunoberry	V	Protective			
Immunitone Plus	▼				
Mito-PQQ	▼				
Omega Avail	V				

Protective

Beneficial Formulas

Immunoberry

Source: https://catalog.designsforhealth.com/ImmunoBerry-Liquid

No Significant Response

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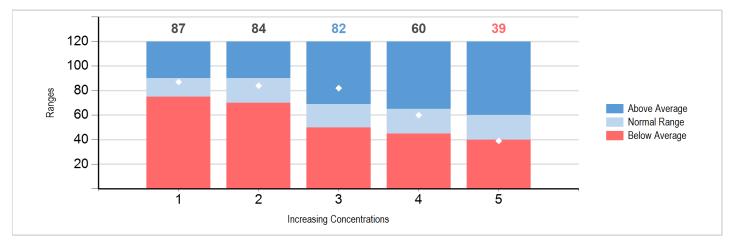


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REDOX ASSAY

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The Redox Score is an indication of your resistance to oxidative stress, relative to the general population. An average or below average response can be improved by appropriate use of nutrients and antioxidants as determined by the Antioxidant Protection Assay and guidance from your practitioner.



The Redox scores indicate an average response.

