

ADVANCED TESTING MENU

SpectraCell offers an extensive menu of integrative solutions to support healthcare providers in creating a patient-centered approach in the prevention and treatment of chronic disease, thereby offering innovative testing designed to improve outcomes.

NUTRITIONAL

SpectraCell's Micronutrient test provides the most comprehensive nutritional analysis available by measuring functional deficiencies at the cellular level. It is an assessment of how well the body utilizes 33 vitamins, minerals, amino/fatty acids, antioxidants, and metabolites, while conveying the body's need for these micronutrients that enable the body to produce enzymes, hormones, and other substances essential for proper growth, development, and good health. Repletion recommendations are made based on need.

VITAMINS	MINERALS	ANTIOXIDANTS	METABOLITES
Vitamin A	Calcium	Alpha Lipoic Acid	Choline
Vitamin B ₁	Magnesium	Coenzyme Q10	Inositol
Vitamin B ₂	Manganese	Cysteine	Carnitine
Vitamin B ₃	Zinc	Glutathione	
Vitamin B ₆	Copper	Selenium	
Vitamin B ₁₂		Vitamin E	
Vitamin C	AMINO ACIDS		SPECTROX™ for TOTAL ANTIOXIDANT FUNCTION
Vitamin D	Asparagine	CARBOHYDRATE METABOLISM	
Vitamin K	Glutamine	Chromium	
Biotin	Serine	Fructose Sensitivity	
Folate	FATTY ACIDS	Glucose-Insulin Interaction	IMMUNIDEX™ IMMUNE RESPONSE SCORE
Pantothenate	Oleic Acid		

CARDIOVASCULAR

SpectraCell's CardioMetabolic test offers a clinically relevant evaluation to help define risk for atherosclerotic cardiovascular disease (ASCVD), progression toward Type 2 Diabetes, and inflammation. It includes SpectraCell's Advanced Lipoprotein Particle Profile™ Plus (LPP™ Plus), which measures lipoprotein size and density; cardiovascular risk stratification; and also includes triglycerides and traditional cholesterol screening. Each patient is assigned a **CardioMetabolic Risk Assessment**, which is an indication of your risk (Low, Moderate or High) for developing cardiovascular disease, including stroke and diabetes. In addition, the **Type 2 Diabetes Risk Assessment** is an estimate of your risk of developing Type 2 Diabetes. The CardioMetabolic test also includes **OmegaCheck™**, which measures the ratio of omega-6 to omega-3 fatty acids in one's blood. The higher the content of omega-3 fatty acids, the lower the risk of a fatal heart attack and other inflammatory conditions.

CARDIOMETABOLIC	PRE-DIABETES	LPP™ PLUS
Lipoprotein Fractionation	Insulin	Lipoprotein Fractionation
Lipoprotein Particle Numbers	Glucose	Lipoprotein Particle Numbers
Total LDL Particles	Hemoglobin A1c	Total LDL Particles
Total HDL Particles	C-peptide	Total HDL Particles
Triglycerides	Adiponectin	Triglycerides
Lipoprotein (a)	Leptin <i>New</i>	Lipoprotein (a)
Leptin <i>New</i>	hs-CRP	Apolipoprotein A-I <i>New</i>
Apolipoprotein A-I <i>New</i>	Triglycerides	Apolipoprotein B
Apolipoprotein B	Total HDL Particles	hs-CRP
hs-CRP		Homocysteine
Homocysteine		Insulin
Insulin		
Glucose		
Hemoglobin A1c		
C-peptide		
Adiponectin		
OmegaCheck™ <i>New</i>		

OmegaCheck is performed by Cleveland HeartLab.

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HORMONE HEALTH

Comprehensive male and female hormone tests are offered. Both end-point steroid hormones and precursor hormones are included so that the precise location of imbalance in the complicated hormonal cascade can be pinpointed. Peptide hormones, a complete thyroid panel, and thyroid antibodies are also offered as part of this assessment. As with micronutrient levels, an imbalance in one hormone can initiate a cascade of events that alters levels in other hormones, so a comprehensive look at hormone status is essential.

HORMONES & MARKERS

Androstenedione
DHEA-S
Estrone (E1)
Estradiol (E2)
Estriol, unconjugated (UE3)
FSH
IGF-1

LH
Progesterone
Prolactin
SHBG
Testosterone, Total
Testosterone, Free (calc)
PSA Total

THYROID PLUS ADRENAL

T3 Free (FT3)
T4 Free (FT4)
T4
TSH
Anti-Thyroglobulin, Ab
Anti-TPO, Ab
Thyroglobulin

Thyroxine-Binding Globulin (TBG)
Cortisol
DHEA-S

ADD-ON

Reverse T3

GENETICS

Telomere Testing

This test, which measures the length of one's telomeres, reveals the rate of biological aging and is strongly correlated with risk for chronic diseases. It has been established as a superb marker for cellular aging. Therapies directed at slowing the loss of telomere length may slow aging and the progression of age-related disease.

Genotyping

Reveals genetic markers critical for determining treatment strategies to decrease the risk of cardiovascular disease and other chronic disease conditions. We offer several genetic tests that complement our integrative test menu.

- **MTHFR (methylenetetrahydrofolate reductase):** Mutations in this enzyme can affect the metabolism of homocysteine – causing accumulation – and therefore, impair methylation. Methylation is a biochemical process that is involved in numerous functions including cellular repair, energy production, detoxification, neurotransmitter production, and immunity, among others. MTHFR mutations have been linked to increased risk for cardiovascular disease, blood vessel damage, blood clots (thrombosis), stroke, and degenerative aging.
- **Apolipoprotein E -** This test measures risk for lipid irregularities. The results of this test can help inform lifestyle and treatment strategies to help reduce cardiovascular disease risk.
- **Factor V Leiden and Prothrombin -** The results of this test determine one's susceptibility to thrombosis (formation of blood clots), deep vein thrombosis, and heart attack.

