Micronutrient Testing

Research has shown that 50% of those taking multivitamins ARE STILL DEFICIENT.

Micronutrient Testing from SpectraCell Laboratories

SpectraCell Laboratories, Inc. is a CLIA accredited clinical laboratory that specializes in patented functional intracellular testing. This patented process resulted from 18 years of research at the University of Texas. Our tests measure how micronutrients are actually functioning within your patients' white blood cells. These tests allow nutritional assessment of your patients for a broad variety of clinical conditions including arthritis, cancer, cardiovascular risk, diabetes, various immunological disorders, metabolism disorders and micronutrient deficiencies. Also offered by SpectraCell is a specialized profile of homocysteine, lipids and proteins to assess cardiovascular risk.

SpectraCell's Micronutrient Testing is More Advanced Than Other Laboratory Tests

Before the introduction of micronutrient testing, many diagnoses and risk assessments were based on clinical observation and measurements of static levels of certain nutrients in serum. Static serum levels are not representative indicators for assessing cell metabolism and utilization.

SpectraCell's Patented Technology

SpectraCell's patented chemically defined control media contains the minimal amount of each essential micronutrient that is needed to support optimal lymphocyte growth or mitogenic response. The functional intracellular status of micronutrients involved in cell metabolism is evaluated by manipulation of the individual micronutrients in the media, followed by mitogenic stimulation and measurement of DNA synthesis.

The same micronutrient technology also provides a total antioxidant function test (SPECTROX®) which assesses the ability of cells to resist damage caused by free radicals and other forms of oxidative stress. Due to the considerable number of cellular antioxidants with extensive interactions, redundancies, repair and recharging capabilities, measuring total function is the most accurate and clinically useful way to assess your patient's capacity to resist oxidative damage. Since lymphocytes are produced in the bone marrow and stored in peripheral locations for long periods of time (the average life span of a lymphocyte is approximately four to six months), SpectraCell's measurements provide a powerful portrait of each patient's long term nutrient status. This is analogous to the use of a glycosylated hemoglobin test to evaluate blood glucose levels over a 1-3 month period.

Patented Chemically Defined Media

Micronutrient testing utilizes metabolically active peripheral lymphocytes and measures DNA synthesis using a patented, chemically-defined culture media that is free of serum or protein that could affect test results. This unique media allows our scientists to identify functional intracellular deficiencies that limit mitogenic responses and cell mediated immune function.

Interpreting Test Results

SpectraCell provides easy to read test reports for the clinician and the patient. We've incorporated numerical and graphic representations for each result and we offer repletion suggestions based on each patient's deficiencies. We've included easy-to-understand supplement information that explains the role of each nutrient found deficient, deficiency symptoms, how to obtain that nutrient in food, and toxicity and RDI standards for adults.