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Suracell Personal Genetic Program

Test Description: SCL

Specimen Id: SI-25670-01

Client / Patient Id: 009580

Internal Id: 25670

Ordering Practice / Physician: _____

Client: Daniele Scarpa

We are pleased to welcome you to the Suracell™ program.

It is based on information from recent findings of the Human Genome Project, using DNA research from Nobel Prize winning science. The purpose of the Suracell program is to help you understand the efficiency of your genes in the way that they determine the activity of various defined internal processes, and recommend nutritional support to promote a beneficial result of those processes. We are truly the first generation of human beings who have the power to utilize genetic information to help us to determine the foods and supplements that are right for us.

Active within each of the roughly 100 trillion cells that make up your body are five key processes: methylation, inflammation, glycation, oxidation and DNA Repair.

The efficiency of each one of these processes is controlled by a specific group of your genes, and the efficiency of your inherited genes related to each process is information that we use to personalize your dietary requirements.

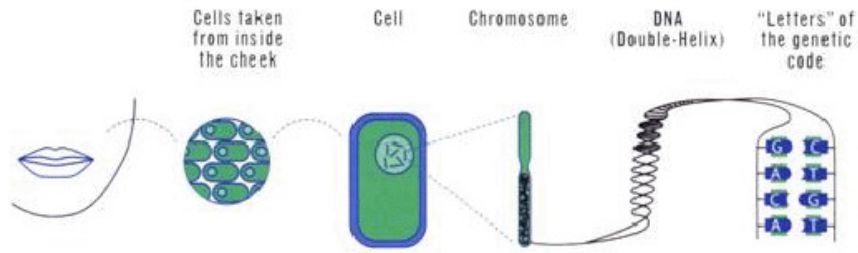
How do we know the efficiency of your genes in each category?

Our DNA contains approximately 30,000 genes. Within our cells, our DNA is organized into 23 pairs of chromosomes. Genetic variations in our DNA are called SNPs (Single Nucleotide Polymorphisms). If we compare the DNA of two individuals, we will see that they appear to be about 99.5% identical (except for identical twins, which are 100% identical). However, that crucial variation of 0.5% is one of the factors that make us genetically unique. DNA can be thought of as a string of nucleotide sequences represented by the letters A (for adenine), T (for thymine), G (for guanine) and C (for cytosine) - 3 billion strings linked together. If the DNA of any two individuals were compared, a variation would be found approximately once in every two thousand letter positions and this variation is the SNP. These variations are completely normal and occur frequently in the general population.

We have taken a sample of your cells from the inside of your cheek. DNA is then extracted from the cells and analyzed to identify your individual gene variations, or SNPs.

DNA research has determined that many identified SNPs, or gene variants, are significantly correlated with the five key cellular process mentioned previously. The SNP test is an essential tool in determining the most effective dietary strategy personalized for a specific individual.

How we go from a cheek sample to your genetic profile.



The New Paradigm

Your Suracell test results, combined with the Lifestyle Questionnaire you have completed, allow us to create your personal genetic dietary regimen.

Welcome to the Suracell program. We look forward to helping you achieve your future dietary and wellness goals.

DNA Profile Summary

Ordering Practice / Physician: Dr. Bruno Mandalari

Processing Laboratory: Bioserve Biotechnologies

Laboratory CLIA #: 21D1059245

Specimen Type: buccal cheek cell

Specimen Id: SI-25670-01

Sample Collection Date: 12/11/2007

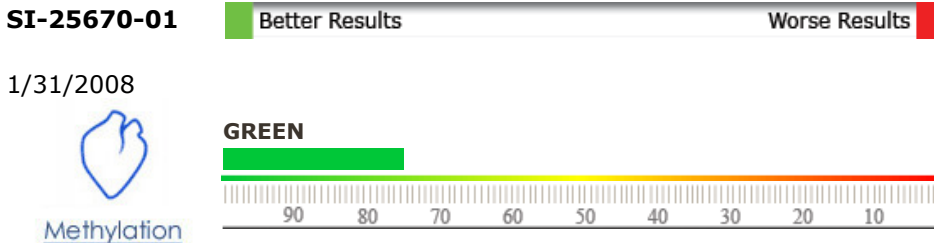
Sample Processing Date: 1/31/2008

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Your DNA Profile (SNPs test) measures five of your body's key cellular processes.

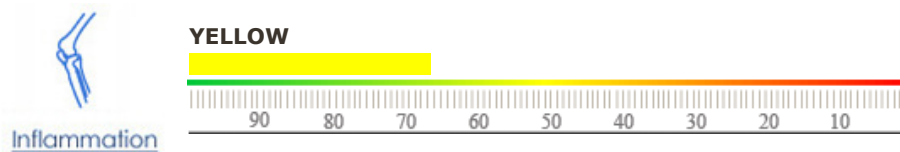


Definition

Methylation is a cellular process that is active in gene expression, turning genes "on" and "off", repairing DNA, and eliminating cellular waste.

Your Results

The genes you have inherited related to **Methylation** are represented on Suracell's gene efficiency rating scale as **high** (color code **green**).

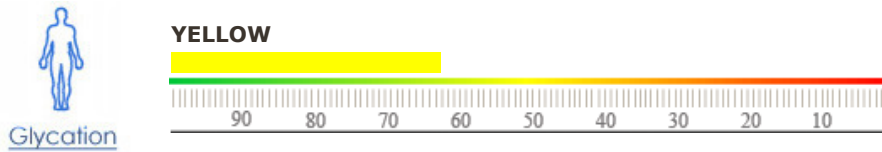


Definition

Inflammation is a cellular process by which the body tries to heal itself after injury or infection.

Your Results

The genes you have inherited related to **Inflammation** are represented on Suracell's gene efficiency rating scale as **medium**. (color code **yellow**).

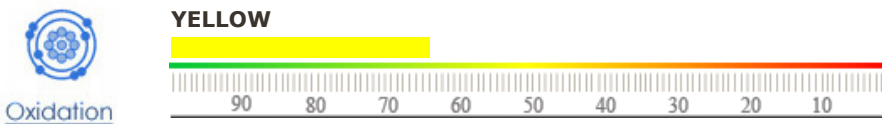


Definition

Glycation is a destructive cellular process in which glucose molecules bind to protein molecules rendering them unable to function.

Your Results

The genes you have inherited related to **Glycation** are represented on Suracell's gene efficiency rating scale as **medium** (color code **yellow**).

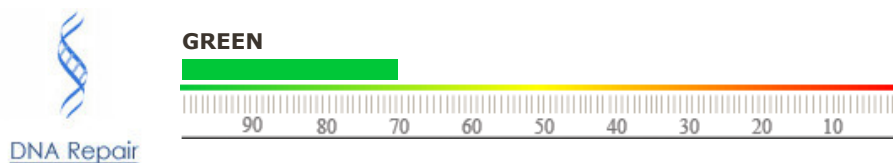


Definition

Oxidation is a cellular process that, as a by-product, creates free radicals. Free radicals are high-energy particles that can damage your DNA and the lipids and cell membranes that surround your genetic material.

Your Results

The genes you have inherited related to **Oxidation** are represented on Suracell's gene efficiency rating scale as **medium** (color code **yellow**).



Definition

DNA Repair is a cellular process which attempts to repair genetic damage caused by oxidative stress, free radicals and faulty replication of genetic material.

Your Results

The genes you have inherited related to **DNA Repair** are represented on Suracell's gene efficiency rating scale as **high** (color code **green**).



Methylation

Your DNA Profile measures your body's metabolic rate of methylation, a cellular process whereby certain genes are activated and de-activated. Physician Notes: Faulty methylation patterns may be linked to cardiac aging, brain aging and the development of cancer.



**APOC3
T-2854G**

GREEN



CETP Ile405Val YELLOW



CETP TaqIB GREEN



MTHFR C677T YELLOW



Inflammation

Your DNA Profile measures your body's metabolic rate of inflammation, the cellular process by which the body tries to heal itself from injury or infection. Aging, along with faulty diet and lifestyle choices, diminishes the body's resistance against chronic inflammation. Physician Notes: Chronic cellular inflammation may be linked to diabetes, obesity, congestive heart failure, bone and joint conditions and digestive conditions.



ICAM1 K469E GREEN



IL6 G-174C RED



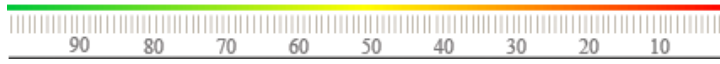
NOS3 G894T **YELLOW**



NPY L7P **GREEN**



PPARA L162V **YELLOW**



TNF G-308A **GREEN**



Glycation



Your DNA Profile measures your body's metabolic rate of glycation, a destructive cellular process in which glucose molecules bind to protein molecules, rendering them unable to function. Glycation is affected by and affects blood sugar levels.

Physician Notes: Faulty glycation patterns may be linked to aging and health conditions such as cancer and diabetes.



LEPR
Gln223Arg

YELLOW



LEPR K109R

YELLOW



PPARG
C1431T

YELLOW



PPARG
Pro12Ala

GREEN



Oxidation



Your DNA Profile measures your body's metabolic rate of oxidation, a destructive process contributing to the production of free radicals in the body. Physician Notes: Oxidative stress from free radicals, environmental pollution and stress may be linked to diabetes, heart disorders, Alzheimer's disease, rheumatoid arthritis, macular degeneration and kidney disease.



AGER A2184G GREEN



AGER Gly82Ser

GREEN



CAT C(-262)T YELLOW



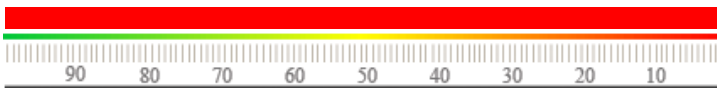
CYP2D6 C100T GREEN



NQO1 C609T GREEN

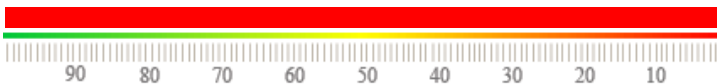


SOD2 Ala-9Val RED



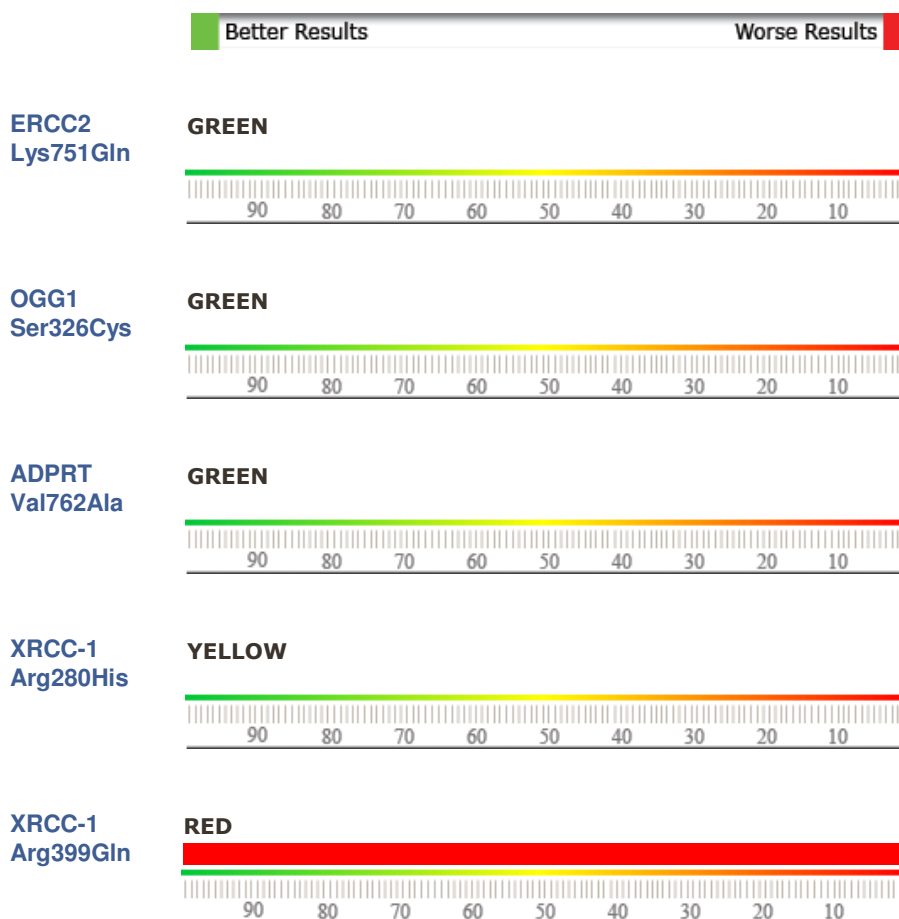
SOD3 Arg213Gly

RED



DNA Repair

Your DNA Profile measures your body's potential to repair damage to its DNA, caused by free radicals, toxic compounds, radiation and other environmental conditions. Physician Notes: DNA damage may be linked to premature aging, tumors, cancer, and overall poor quality of health.



Below is the list of recommended products

Your Regimen

Your suggested regimen of nutraceuticals is initially created from your Suracell test results.

In addition, if you answered the questions in the Health and Lifestyle Profile, your suggested regimen is adjusted to take into account the impact of your environment and life situation.

If you did not complete the questions, or you wish to update your previous answers, you may do so at any time, and your suggested regimen will be adjusted.

Your Suracell Personal Genetic Health regimen of suggested nutraceutical products is listed below, with dosage instructions, and instructions on the best time of day to take each product.

Take in the Morning

- 1 x Tablet -- Methylation / Heart & Vascular (RS)
- 2 x Tablets -- Essential Genetic Formula: AM
- 1 x Tablet -- Inflammation / Bone & Joint (RS)
- 1 x Tablet -- Glycation / Blood Sugar (RS)
- 1 x Tablet -- Oxidation / Detoxification (RS)

Total to take in the Morning = 6 tablets

Take at Bedtime

2 x Tablets -- Essential Genetic Formula: PM

Total to Take at Bedtime = 2 tablets