



Genetic Biosciences For Improving the Quality of Life.

Dermagenetics® DNA Skin Health Test Summary for _____

What Does Your Dermagenetics® DNA Skin Health Test Measure?

Bar Code #: _____

The Dermagenetics® DNA Skin Health Test looks for variations in 5 key skin aging genes that are very important to your skin's overall skin health & appearance; specifically your genetic propensity for: Collagen breakdown; Photo aging; Skin wrinkling; Skin slacking; Mild irritation; and your skin's ability to tolerate Environmental pollutants.

These variations are also known as SNPs which stands for single nucleotide polymorphisms. If you have one or more variations (SNPs) it simply means that the protein related to that skin health area is functioning less than optimally. Using the information from your Dermagenetics® DNA Skin Health Test your skin care products will be custom formulated with genetically selected active ingredients (SNPActives) chosen through clinical studies for their ability to help compensate for any disadvantaged genes. The products you receive are customized to help meet your individual genetically determined skin health needs.

Gene Analyzed	Skin Health Area	General Description	Recommended Support Level
MMP1	Regulating cell growth, Collagen Breakdown & Photo aging	How fast we breakdown collagen in the dermis, photoage and regulate cell growth is caused by our genetic make up as well as exposure to sunlight. If your level of support is higher than basic, you can experience more collagen breakdown and photoaging that normal. Matrix metalloproteinase (MMP) enzymes are known to cause degradation of skin fibers & cause wrinkles. The genetically selected active ingredients help compensate for these deficiencies by stimulating collagen synthesis and promoting tissue restructuring and firming.	BASIC
SOD2	Defending against Oxidative stress and detoxifying super-oxide free radicals	Oxidative damage, caused by naturally-occurring free radical molecules, can affect all skin cells. During the process of respiration, the oxygen that is consumed by each cell generates highly-reactive oxygen radicals as natural by-products. The natural enzyme (SOD) in each cell works to prevent the build-up of such free radicals. The genetically selected active ingredients help compensate and rectify this degenerative processes in the skin.	ADDED
GPX1	Protects against oxidative stress by removing & eliminating hydrogens peroxide free radicals	Hydrogen peroxide is also formed during oxygen metabolism. If hydrogen peroxide is not detoxified, it will decompose into hydroxyl radicals and affect all skin cells. The genetically selected active ingredients help prevent the accumulation of toxic hydroxyl radicals and minimize skin cell damage.	MAXIMUM
EPHX	Measures your skins ability to detoxify and protect skin cells against damage from environmental pollutants	Environmental Pollutants from cigarette smoke, automobile emissions & other environmental pollutants are detoxified by the enzyme EPHX. The genetically selected active ingredients help compensate these deficiencies while fighting accelerated skin aging and damage from these pollutants.	ADDED
TNFa	Proinflammatory	Skin irritation and sensitivity can come from common products used in daily living, such as soaps and detergents, household cleaning products and chemicals, etc. The genetically selected active ingredients compensate and help to diminish sub clinical erythema or irritation-derived redness in the skin.	MAXIMUM

Interpreting your results and recommended support level.

No disadvantaged gene SNPs in this skin health area

A **GREEN** test result (Homozygous Negative) indicates that you do not have the variant SNP and that the gene is functioning optimally to produce its specific enzyme, hormone, cytokine or structural protein. A comprehensive **BASIC** skin-care support for this area is added to keep the skin functioning optimally.

One disadvantaged gene SNP from one of your parents in this skin health area

A **YELLOW** test result (Heterozygous Positive) indicates that you have one variant SNP and that the protein molecule expressing a specific enzyme, hormone, cytokin or structural protein is functioning less than optimally, **ADDED** skin-care support (SNPActives™) for this area is added to keep skin functioning optimally.

Two disadvantaged gene SNP from both of your parents in this skin health area

A **RED** test result (Homozygous Positive) indicates that you have two variant SNP and that the protein molecule expressing a specific enzyme, hormone, cytokine or structural protein is functioning minimally. As a result, it is important to have **MAXIMUM** added skin-care support (SNPActives™) for this area to keep the skin functioning optimally.

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