

# IL1 HEART HEALTH CLINICAL STUDY

» FINAL CLINICAL REPORT BY THE NUTRILITE HEALTH INSTITUTE, JANUARY 2007

**Double-Blind, Placebo-Controlled Trial to Evaluate the Effect of NUTRILITE® IL1 Heart Health Nutrigenomic Dietary Supplement on IL-1 Gene Expression, IL-1 Production, and C-Reactive Protein in Healthy Human Subjects**

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CLINICAL TEST CENTERS: Alticor Inc., Access Business Group LLC, Southbay Pharma Research, East Coast Clinical Research, Omega Medical Research, Providence Clinical Research, and Sall Research Medical Center

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## » CLINICAL ABSTRACT OF FINAL RESEARCH REPORT

The impact of nutrition and lifestyle has long been recognized as a risk factor for poor health. However, while it is clear that nutrition and lifestyle have significant impact on health in general, different individuals exhibit very different responses to the same nutritional or lifestyle factor. This individual responsiveness is known to be influenced in large part by genetic makeup, also known as genotype.

A strengthening body of research is supporting the role of the interleukin-1, or IL-1, gene in relation to heart health. Individuals with a so-called IL-1 Positive Genotype have an exaggerated defense response that leads to elevated mediators such as IL-1 and C-Reactive Protein (CRP), and increased health risks.

With this in mind, the IL1 Heart Health clinical study was designed to evaluate the effect of the NUTRILITE® IL1 Heart Health Dietary Supplement on IL-1 and CRP. Our goal was not to reduce everyone's response; rather, it was to help balance the response in people genetically predisposed to elevated levels of IL-1 gene expression, production, and CRP levels.

For this Independent Review Board-approved study, 64 healthy men and women who had been prescreened to determine their IL-1 genotype and CRP levels were recruited, gave their written informed consent to participate in the clinical trial, and had a medical exam by the physician Principal Investigator. All participants then gave blood samples before and after consuming the NUTRILITE IL1 Heart Health Dietary Supplement, or a placebo, for 12 weeks. The blood samples were then analyzed for IL-1 gene expression, production, and CRP levels.

Compared to a person's value at the start of the study, NUTRILITE IL1 Heart Health Dietary Supplement reduced IL-1 gene expression by a phenomenal 60% (top graph), IL-1 production by 40% (middle graph), and CRP by 20% or more in 45% of individuals (bottom graph). All of these reductions were significant compared to placebo tablets.

This controlled clinical study demonstrates that the NUTRILITE IL1 Heart Health Dietary Supplement helps balance IL-1 gene expression for people who overexpress IL-1 as determined by the GENSONA™ Heart Health Genetic Test. This exclusive formula also helps maintain normal CRP for those already in the normal range.

