



DNA/OXIDATIVE STRESS
8-OH-2'-DEOXYGUANOSINE

Evaluating Your Oxidative Stress Level...



Lipid Peroxides

What are Lipid Peroxides?

Lipid peroxides are the products of chemical damage done by oxygen free radicals to the polyunsaturated fatty acids of cell membranes. They cause a variety of toxic effects at the cellular level and their formation is considered a pathological process in biological systems. Their formation can be repressed by antioxidants, such as vitamin E, structural separation or low oxygen tension.

[Source: Online Medical Dictionary]

What does the Metamatrix Lipid Peroxides Profile measure?

The results provide a measure of total serum lipid peroxidation, an indicator of whole body free radical activity. Treatment plans can then be created with your doctor to lower high lipid peroxides.

Conditions and symptoms related to high lipid peroxide levels:

- Aging
- Cancer
- Cardiovascular disease
- Stroke

DNA/Oxidative Stress Marker

What are DNA/Oxidative Stress Markers?

8-hydroxy-2' deoxyguanosine (8OHdG) is a marker of oxidative damage to DNA. 8OHdG correlates with the rate of DNA damage. Research studies have used 8-OHdG as an assessment of oxidative damage when evaluating effects of toxic exposure or disease states, and in response to medications, treatments, supplement use and improved diet and lifestyle habits. Research has shown that improved diet, lifestyles and supplement use can decrease the level of oxidative damage.

Factors associated with oxidative damage:

- Atherosclerosis
- Body mass index
- Cancer
- Diabetes
- Environmental exposure
- Gender
- Hematological diseases
- Hyperglycemia
- High blood pressure
- Liver disease
- Lung cancer
- Parkinson's disease
- Poor lifestyle habits
- Sleep apnea
- Smoking
- Toxic exposure

[Sources: PubMed, Oxford Journals, Science Direct]

For further assessment of oxidative stress, you may want to ask your healthcare provider about the Metamatrix Coenzyme Q10 and Vitamins Profiles!

PATIENT INFORMATION SHEET



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