



Free Radical Test Kit

Professional Testing Systems



Discover Your Need For Antioxidants

The Free Radical Test enables you to determine the level of stress on your body caused by free radical activity. People of all ages can benefit from knowing if they are getting enough antioxidants in their diets—including nutritional supplement sources—to counteract free radical damage to cells.

The Free Radical Test

Free radicals play an important role, both in health and disease. Free radicals have been implicated in countless human disease processes. Free radicals are also vital to human health. These molecules (Reactive Oxidant Species) are extremely important to human metabolic processes according to a growing body of scientific literature.

Any molecule can become a free radical by either losing or gaining an electron. Molecules containing these uncoupled electrons are very reactive.

Once free radicals are initiated, they tend to propagate by becoming involved in chain reactions with other less-reactive species. The chain reaction compounds generally have longer half-lives and, therefore, extend the potential for cellular damage.

The life of a free radical has three stages:

1. Initiation stage
2. Propagation stage
3. Termination stage.

Free radicals are terminated—or neutralized—by nutrient antioxidants, enzymatic mechanisms, or by recombining with each other. The quest is to find that delicate balance between free radical activity and optimum antioxidant therapy—thus achieving homeostasis.

Thanks to technological advancement we can now test for free radicals. The Free Radical Test measures the distance-end of the polyunsaturated fat chain where aldehydes form as a result of free radical attacks. The test correlates with lab measurements to create precise results from a urine specimen. Aldehyde activity is much more concentrated in urine.

The Free radical Test is a colormetric (color absorbent) reading from urine testing, which has evolved from blood/plasma fluourometric data. In studies at a major university it was determined that using a colormetric urine test is much more sensitive than blood/plasma aldehyde testing.



Test Procedures

Free Radical Test Information



Free Radical Measuring Mechanism

In the process of free radical production in the body there are certain chemical byproducts produced. One of these byproducts is malondialdehyde (MDA). This substance produces the color reaction on the test strip.

Test Validations

The test was scientifically validated by means of the Conti Fluorometric assay in the laboratory. This is a highly-sensitive test that can measure minute quantities of malondialdehyde (MDA) present in body fluids.

Comparison with Blood Test

The most accurate test for malondialdehyde is the urine. Blood contains only the amount of MDA circulating in the body at a particular point in time. The amount of MDA in the urine is more of an end-point product and the test is noninvasive.

Utilization of a urine-based Free Radical Test is 40 to 50 times more reliable than a MDA blood test. The accuracy of the test is within a range of 90%.

The Free Radical Urine Test is not a quantitative test; nor is it a diagnostic test for any particular disease condition. The Free Radical Urine Test provides a useful nutritional guide in the form of a color chart.

This chart is useful in determining the amount of oxidative activity in the body—and in determining the corrective nutritional antioxidants that are helpful in reaching a healthful destination.



Frequency of Test:

The frequency for the Free Radical Urine Test varies with each individual.

If an individual test color is in the high free radical range, the person should begin or increase antioxidant supplementation immediately. Then additional testing should be done at least once a month thereafter until free radical activity has been reduced.

The Free Radical Urine Test can be taken one or two times a month thereafter.

RECOMMENDATIONS:

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| Cautious level.... | 1 serving of Fruit and Veggie daily. |
| High level..... | 2 servings of Fruit and Veggie daily, 1 Opti-Mito-Force morning and evening. |
| Very High..... | 2 servings of Fruit and Veggie daily, 1 Opti-Mito-Force morning and evening, 2 Opti-Nitric evening. |