



Measuring the oxidative balance



FREE RADICALS

Free radicals have an important role in the cell but, when in excess, they can alter the normal behaviour of vital biological molecules, leading to oxidative stress.

ANTIOXIDANTS

Antioxidants are agents that can neutralize the harmful action of free radicals and are a fundamental defence for the body.

Understanding animal health



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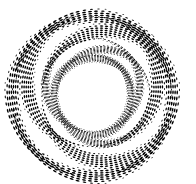
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With all living organisms there is a delicate balance between the oxidative status and the antioxidant defences.

Oxidizing species - especially free radicals - perform important functions but, when in excess, they can alter the normal functions of vital biological molecules and lead to oxidative stress.

Oxidative stress is the loss of this balance and is considered to be an emerging health risk factor that may cause serious damage to cells and tissues.

Oxidative stress does not manifest itself in any specific clinical manner, especially in animals, but it can be identified with simple laboratory tests using Panel Carratelli.

Increasing evidence in scientific and clinical fields documents the usefulness of Panel Carratelli in veterinary medicine: the tests are used successfully to assess the health of various animal species, the effects of veterinary treatments and the antioxidant efficacy of the integrations. They are used on pets, such as cats and dogs, and livestock (cattle, pigs, etc.).

PANEL CARRATELLI VET

Panel Carratelli is the integrated analytical approach providing a global oxidative balance assessment through a series of complementary tests.

These tests can be divided in two groups – one to evaluate the pro-oxidant status and the other the antioxidant status.

The tests can be performed on dedicated instrumentation but also on automatic analysers.

d-ROMs Test is most frequently used in veterinary medicine to assess the impact of the production of free radicals on an animal's health status (pro-oxidant status) while the **BAP Test** is used for the assessment of the antioxidant barrier.

The animal should be given one or more of the Panel Carratelli tests depending on the clinical situation, thus allowing the veterinarian to establish, in real time, if oxidative stress is due to an overproduction of free radicals or to a low antioxidant capacity.



A complete panel for the oxidative balance assessment.



Simple tests that can be used on photometers, microplate readers, automatic analysers and dedicated instrumentation.



For a preventive diagnosis and to monitor therapies.