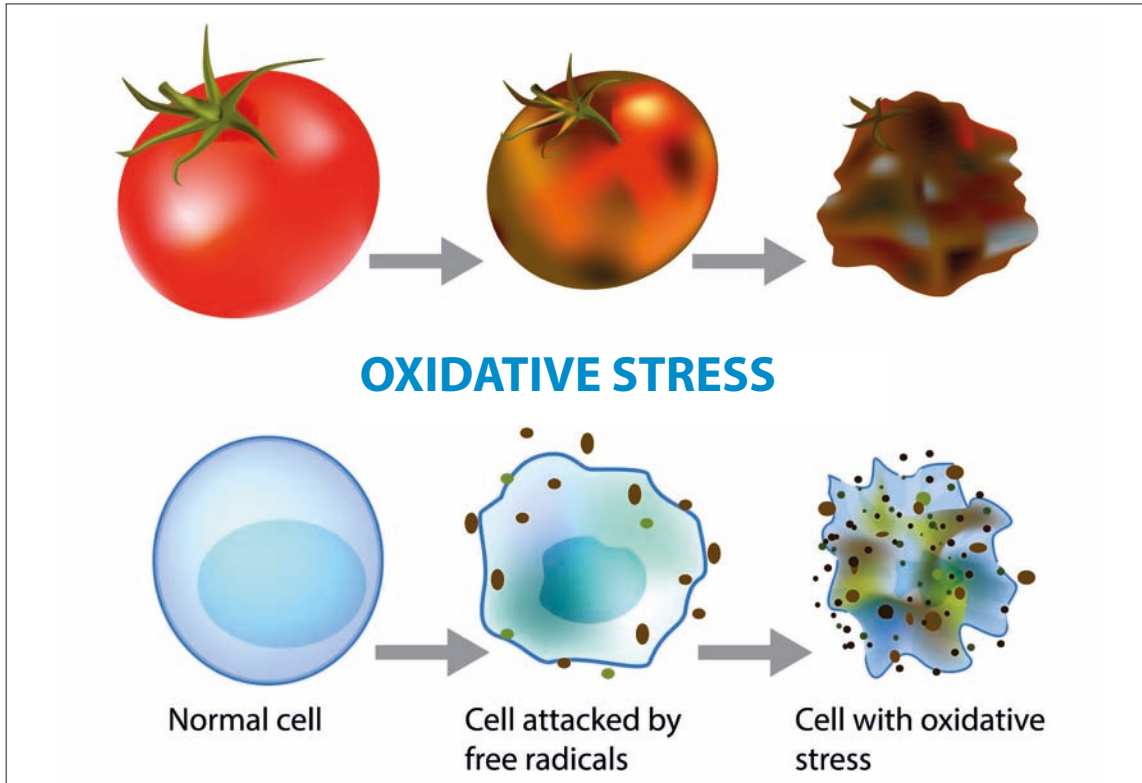


PerOx / ImAnOx®

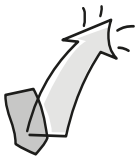


Determination of the oxidative stress and the antioxidative capacity

- ▶ Detection of a deficitary state
- ▶ Ensure protection by antioxidative substance
- ▶ Monitoring the efficacy of diet supplementation



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PerOx / ImAnOx®

Preventive medicine – Medicine of the future

In the healthy body, oxidative and reductive processes are balanced. A surplus of oxygen radicals or insufficient antioxidative mechanisms result in a dangerous imbalance within the organism. This imbalance induces pathological mechanisms that in turn are directly or indirectly responsible for a variety of diseases, arteriosclerosis with secondary cardiac infarction and stroke being the most predominant one. Its participation in inflammatory processes, sepsis, cancerogenesis and neurodegenerative processes is evident and causative.

This relationship is an important reason for the increasing impact of determining the **oxidative stress (PerOx / TOS, „total oxidative status“)** and the **antioxidative capacity (ImAnOx® / TAS, „total antioxidative status“)** in the current field of medical diagnosis.

The current methodology for measuring the effects caused by radicals, e. g. lipid peroxidation, are either very time-consuming (HPLC) or they detect only metabolites from polyunsaturated fatty acids (TBARS – thiobarbituric acid reactive substances).

The PerOx and ImAnOx® assays are rapid and easy to perform and permit the detection of the total peroxide content or the total antioxidative capacity, respectively from the sample.

Both test systems are screening tests. An increased oxidative stress (PerOx) or a deficiency in the oxidative capacity (ImAnOx®) can be positively influenced by a change in nutrition and/or a supplementation of the diet with antioxidative substances.

PerOx (TOS/TOC)

Detection of the total peroxide content

The PerOx-Assay is fast, reliable and easy to perform. Total lipid peroxides are measured. Because of a direct correlation between oxygen radicals and lipid peroxides it is possible to measure and characterize the oxidative status/oxidative stress in biological fluids.

PerOx (TOS/TOC)	(oxidative capacity)
Matrix	Serum, EDTA plasma
Sample volume	20 µL
Test principle	colorimetric
Cat. No.	KC5100

ImAnOx® (TAS/TAC)

Detection of the total antioxidative capacity

The ImAnOx® assay is fast, reliable and easy to perform. The total antioxidative capacity is measured.

ImAnOx® (TAS/TAC)	(antioxidative capacity)
Matrix	Serum, EDTA plasma
Sample volume	40 µL
Test principle	colorimetric
Cat. No.	KC5200

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