

# Superoxide dismutase SOD

## General:

Superoxide dismutase (SOD, EC 1.15.1.1) converts two superoxide anions into hydrogen peroxide which is then degraded by catalase or peroxidase. Four groups of SOD are known, which vary based on their heavy metal ion (Cu/Zn, Fe, Mn-, Ni-SOD) in the active center. They form a similar antioxidative system as vitamin C or glutathione. The superoxide dismutase is also involved in the detoxification of heavy metals like mercury. It is an inducible enzyme. Hyperoxia, heavy metals and xenobiotics are described as in-ductors. A lack of zinc can result in a restricted activity of the enzyme.

Indication: Additional parameter for the oxidative capacity, see **Oxidation status**

Material: 2.7 ml EDTA blood

TAT: 7-10 days\*

Method: PHO

Units: U/g Hb

Ref.- range: 1102 - 1601

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit <http://www.fml-dubai.com/parameter-listings/>