

Total Oxidant Status (TOS) Colorimetric Assay Kit

Cat No: HR3BC1274

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Microplate reader(580 nm-590 nm,optimum wavelength: 590 nm)
Assay Time	30 min
Validity	3
Assay Type	Quantitative
Sample Type	tissue, serum and other liquid samples
Synonyms	TOS
Instrument	Microplate reader(580 nm-590 nm,optimum wavelength: 590 nm)
Detection Principle	Under acid conditions, the oxidizing material in the sample can oxidize Fe ²⁺ to Fe ³⁺ , which binds highly with xylenol orange to produce a blue-purple complex. When the pH of solution is in the range of 2-3, its maximum absorption wavelength is around 590 nm, and the color depth is proportional to the content of oxidation substances in a certain concentration and a certain time, so as to indirectly calculate the total oxidation state of the sample.
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4)
Labware	Micropipettor, 37? incubator.
Size	96T
Sensitivity	2.5 ?mol H ₂ O ₂ Equiv./L
Detection Range	2.5-100 ?mol H ₂ O ₂ Equiv./L
Recovery Rate	