

Total Superoxide Dismutase (T-SOD) Activity Assay Kit

Cat No: HR3BC1198

For research use only

Overview

Detection Method	Colorimetric method
Storage	Reagent 4: -20?, others: 2-8?
Instrument	Microplate reader(540-560 nm,optimum wavelength: 550 nm)
Assay Time	70 min
Validity	6
Assay Type	Enzyme Activity
Sample Type	Serum,plasma,urine,cells,cell culture supernatant,tissue
Synonyms	T-SOD
Instrument	Microplate reader(540-560 nm,optimum wavelength: 550 nm)
Detection Principle	The superoxide anion free radical (O ₂ ⁻) can be produced by xanthine and xanthine oxidase reaction system, O ₂ ⁻ oxidize hydroxylamine to form nitrite, it turn to purple under the reaction of developer. When the measured samples containing SOD, the SOD can specifically inhibit superoxide anion free radical (O ₂ ⁻). The inhibitory effect of SOD can reduce the formation of nitrite, the absorbance value of sample tube is lower than control tube. Calculate the SOD of sample according to the computational formula.
Reagents	PBS (0.01 M, pH 7.4), Normal saline (0.9% NaCl)
Labware	Micropipettor, Centrifuge, Incubator
Size	96T
Sensitivity	2.4 U/mL
Detection Range	2.4-61 U/mL
Recovery Rate	105