

Total Superoxide Dismutase (T-SOD) Activity Assay Kit

Cat No: HR3BC1113

For research use only

Overview

Detection Method	Colorimetric method
Storage	Reagent 4: -20?, others: 2-8?
Instrument	Spectrophotometer(550 nm)
Assay Time	100 min
Validity	6
Assay Type	Enzyme Activity
Sample Type	Serum, plasma, urine, cells, cell culture supernatant, tissue
Synonyms	T-SOD
Instrument	Spectrophotometer(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	Normal saline (0.9% NaCl) or PBS (0.01 M, pH 7.4)
Labware	Micropipettor, Vortex mixer, Water bath, Centrifuge
Size	100 Assays
Sensitivity	4.7 U/mL
Detection Range	4.7-166 U/mL
Recovery Rate	105