

Method) Superoxide Dismutase (T-SOD) Activity Assay Kit (WST-1

Cat No: HR3BC1114

For research use only

Overview

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|---------------------|---|
| Detection Method | Colorimetric method |
| Storage | Reagent 3: -20?, others: 2-8? |
| Instrument | Microplate reader(440-460 nm, optimum wavelength: 450 nm) |
| Assay Time | 30 min |
| Validity | 12 |
| Assay Type | Enzyme Activity |
| Sample Type | Serum,plasma,hydrothorax,ascites,urine,cells,tissue |
| Synonyms | T-SOD |
| Instrument | Microplate reader(440-460 nm, optimum wavelength: 450 nm) |
| Detection Principle | The activity of SOD was measured by WST-1 method in this kit and the principles of the WST-1 is as follows. Xanthine Oxidase (XO) can catalyze WST-1 react with O ₂ .- to generate a water-soluble formazan dye. SOD can catalyze the disproportionation of superoxide anions, so the reaction can be inhibited by SOD, and the activity of SOD is negatively correlated with the amount of formazan dye. Therefore, the activity of SOD can be determined by the colorimetric analysis of WST-1 products. |
| Reagents | Normal saline (0.9% NaCl) or PBS (0.01 M, pH 7.4) |
| Labware | Micropipettor, Multichannel pipettor, Vortex mixer, Incubator |
| Size | 96T |
| Sensitivity | 0.2 U/mL |
| Detection Range | 0.2 -14.4 U/mL |
| Recovery Rate | 97 |