

Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit

Cat No: HR3BC1140

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Spectrophotometer(520 nm)
Assay Time	80 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,plasma,saliva,urine,tissue,cells
Synonyms	T-AOC
Instrument	Spectrophotometer(520 nm)
Detection Principle	A variety of antioxidant macromolecules, antioxidant molecules and enzymes in a system can eliminate all kinds of reactive oxygen species and prevent oxidative stress induced by reactive oxygen species. The total level reflect the total antioxidant capacity in the system. Many antioxidants in the body can reduce Fe^{3+} to Fe^{2+} and Fe^{2+} can form stable complexes with phenanthroline substance. The antioxidant capacity (T-AOC) can be calculated by measuring the absorbance at 520 nm.
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4)
Labware	Vortex mixer, Micropipettor, Water bath, Incubator, Centrifuge
Size	100Assays
Sensitivity	0.62 U/mL
Detection Range	0.62-145.2 U/mL
Recovery Rate	105