

Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit

Cat No: HR3BC1210

For research use only

Overview

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| Detection Method | Colorimetric method |
| Storage | 2-8? |
| Instrument | Microplate reader(500-520 nm,optimum wavelength: 520 nm) |
| Assay Time | 50 min |
| Validity | 6 |
| Assay Type | Enzyme Activity |
| Sample Type | Serum,plasma,whole blood,tissue,cells,cell culture supernatant |
| Synonyms | T-AOC |
| Instrument | Microplate reader(500-520 nm,optimum wavelength: 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 | Micropipettor, Centrifuge, Incubator, Vortex mixer |
| Size | 96T |
| Sensitivity | 0.62 U/mL |
| Detection Range | 0.62-190.43 U/mL |
| Recovery Rate | 96 |