Total Antioxidant Capacity (T-AOC) Colorimetric Assay Kit (ABTS, Enzyme Method)

Cat No: HR3BC1151

For research use only

Overview

Detection Method	Colorimetric method
Storage	-20?
Instrument	Microplate reader(405-425 nm)
Assay Time	20 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,plasma,urine,saliva,tissue,cells
Synonyms	T-AOC
Instrument	Microplate reader(405-425 nm)
Detection Principle	The principle of the ABTS method for determining the T-AOC is as follows. ABTS is oxidized to green ABTS+ by appropriate oxidant, which can be inhibited if there exist antioxidants. The T-AOC of the sample can be determined and calculated by measuring the absorbance of ABTS+ at 414 nm or 734 nm. Trolox is an analog of VE and has a similar antioxidant capacity to that of VE. Trolox is used as a reference for other antioxidant antioxidants. For example, the T-AOC of Trolox is 1, then the antioxidant capacity of the other substance with the same concentration is showed by the ratio of its antioxidant capacity to Trolox antioxidant capacity.
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4), 80% Ethanol
Labware	Micropipettor
Size	96T
Sensitivity	0.047 mmol/L
Detection Range	0.047-1.50 mmol/L
Recovery Rate	101