

General Total Antioxidant Capacity Assay Kit

Total Antioxidant Capacity Microplate Assay Kit

CATALOG # AAA27830	REACTIVITY General	APPLICATIONS Functional Assay
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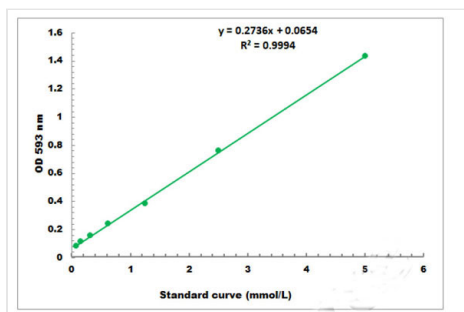
PRODUCT SYNONYMS

Total Antioxidant Capacity; Total Antioxidant Capacity Microplate Assay Kit; TAC; T-AOC; Total Antioxidant Capacity assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Samples	Urine, Serum, Plasma, Tissue extracts, Cell lysate, Cell culture media and Other biological fluids Samples
Detection Range	0.05 mmol/L - 5 mmol/L
Applicable Applications for Total Antioxidant Capacity assay kit	FA (Functional Assay)
Preparation and Storage	Shipped and store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Total Antioxidant Capacity assay kit

Background: An antioxidant is a molecule capable of slowing or preventing the oxidation of other molecules. Antioxidants protect the cells from damages by reactive oxygen species which are produced in oxidation reactions in the cell. Antioxidants can be small molecules such as glutathione, vitamins, or macromolecules such as catalase, glutathione peroxidase. As oxidative stress contributes to the development of many diseases including Alzheimer's disease, Parkinson's disease, diabetes, rheumatoid arthritis and neurodegeneration, the use of antioxidants in pharmacology is intensively studied. Antioxidants are also widely used as dietary supplements and in industry as preservatives in food, cosmetics, rubber and gasoline. The assay measures total antioxidant capacity in which Fe^{3+} -TPTZ is reduced by antioxidant to Fe^{2+} -TPTZ. The enzyme catalysed reaction products Fe^{2+} -TPTZ can be measured at a colorimetric readout at 593 nm.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.