

Total Antioxidant Capacity (TAC) Assay Kit | TAC assay kit

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CATALOG #
AAA31528

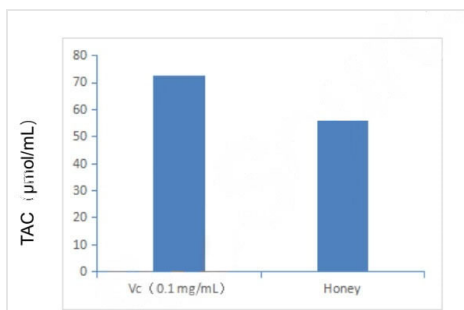
PRODUCT SYNONYMS

Total Antioxidant Capacity (TAC); Total Antioxidant Capacity (TAC) Assay Kit; TAC assay kit

PRODUCT SPECIFICATIONS

Samples	Serum, Plasma, Animal and Plant Tissues, Cells, Bacteria, Urine
Application Notes	Total Antioxidant Capacity (TAC) Assay Kit provides a simple and easy colorimetric assay for measuring Total Antioxidant Capacity in serum, plasma, cell culture supernatants, urine, tissue/ cell lysates and other biological fluids. In this assay, Fe ³⁺ -TPTZ is reduced by antioxidant to Fe ²⁺ -TPTZ. The enzyme catalyzed reaction products Fe ²⁺ -TPTZ can be measured at a colorimetric readout at 593 nm.
Preparation and Storage	Store at -20 degree C and keep from light immediately upon receipt. Kit has a storage time of 12 months from receipt. Refer to list of materials supplied for storage conditions of individual components.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TAC assay kit	Principle of the Assay: Antioxidants play an important role in preventing the formation and scavenging of free radicals and other potentially toxic oxidizing species. There are three categories of antioxidant species: enzyme systems (GSH reductase, catalase, peroxidase, etc.), small molecules (ascorbate, uric acid, GSH, vitamin E, etc.) and proteins (albumin, transferrin, etc.). 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. CheKine™ Micro Total Antioxidant Capacity (TAC) Assay Kit provides a convenient tool for detection of Total Antioxidant Capacity (TAC) in serum, plasma, animal and plant tissues, cells, bacteria, urine and other biological fluids. The principle is that in an acidic environment, antioxidants can reduce Fe ³⁺ -Tripyridine triazine (Fe ³⁺ -TPTZ) to produce blue Fe ²⁺ -TPTZ, and the total antioxidant capacity of samples was obtained by determining the content of Fe ²⁺ -TPTZ at 593 nm.
Product Categories/Family for TAC assay kit	Cell Metabolism

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.