

Hydroxyl Free Radical Scavenging Capacity Assay Kit

Hydroxyl Free Radical Scavenging Capacity Colorimetric Assay Kit

CATALOG #
AAA332508

PRODUCT SYNONYMS

Hydroxyl Free Radical Scavenging Capacity; Hydroxyl Free Radical Scavenging Capacity Colorimetric Assay Kit; Hydroxyl Free Radical Scavenging Capacity assay kit

PRODUCT SPECIFICATIONS

Samples	Animal and Plant Tissues, Serum, Plasma, Cells, Bacteria, Cell Supernatant, Juice, Honey, and Urine
Usage Notes	Do not mix the components between different batch numbers and manufacturers, otherwise, the results may be abnormal. Avoid bubbles while mixing or redissolving components. Change pipette tips frequently to avoid cross contamination between components. Ensure that all components and equipment are at the proper temperature before starting the experiment. In order to guarantee the accuracy of experimental results, need to do a pre-experiment with 1-2 samples. If the OD value exceeds 1.3, the sample needs to be diluted. The sample is hemolyzed or has a dark color and needs to be compared with itself. The specific method is to add 200 uL of the diluted sample and 30 uL of Extraction Buffer (1x) to UV microplate, incubate at 37 degree C for 5 min, record the absorbance at 340nm, and subtract the OD value of the self-control from the measurement well during calculation. Serum, plasma and tissue samples are recommended to be diluted 5 times with Extraction Buffer (1x) for testing. The Reagent I and Reagent II are stored in sealed condition.
Preparation and Storage	Store at 4 degree C. Kit has a storage time of 12 months from receipt. Please refer to the table below Materials supplied and Storage conditions to store all the components. Shipping Gel pack with blue ice.

ADDITIONAL INFORMATION

Related Product Information for Hydroxyl Free Radical Scavenging Capacity assay kit	Principle of the Assay: The hydroxyl radical-OH, is the neutral form of the hydroxide ion (OH⁻), highly reactive (easily becoming hydroxyl groups).Hydroxyl free radicals act on biological molecules such as proteins, nucleic acids, and lipids in the body, causing damage to cell structure and function, which in turn leads to metabolic disorders in the body and causes diseases. Hydroxyl free radical scavenging capacity is one of the important indicators of the antioxidant capacity of samples, and it has been widely used in theresearch of antioxidant health products and drugs. CheKine™ Micro Hydroxyl Free Radical Scavenging Capacity Assay Kit isspecially developed for the detection of hydroxyl free radical scavenging capacity in various sample. The operation is simple andconvenient, and the detection is more sensitive and accurate. In this assay, H2O2/ Fe2+ generates hydroxyl free radical through theFenton reaction. Salicylic acid can effectively capture the generated hydroxyl free radical and reacts with them to produce2,3-dihydroxybenzoic acid with a maximum absorption peak at 520 nm. After the substances with the capacity to scavengehydroxyl free radical, resulting in the decrease of 520 nm absorbance. The value of 520 nm absorbance can reflect the hydroxyl free radical scavenging capacity of the sample.
Product Categories/Family for Hydroxyl Free Radical Scavenging Capacity assay kit	Biochemical Assay Kit; Cell Metabolism; Cytology

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.