

alpha-Ketoglutarate Dehydrogenase (alpha-KGDH) Assay Kit | alpha-KGDH assay kit

alpha-Ketoglutarate Dehydrogenase (alpha-KGDH) Assay Kit (Colorimetric)

CATALOG #
AAA332512

PRODUCT SYNONYMS

alpha-Ketoglutarate Dehydrogenase (alpha-KGDH); alpha-Ketoglutarate Dehydrogenase (alpha-KGDH) Assay Kit (Colorimetric); alpha-KGDH assay kit

PRODUCT SPECIFICATIONS

Samples	Animal and Plant Tissues, Cells
Usage Notes	deltaA of Test Tube should be between 0.01-0.3, the sample should be diluted further if deltaA of Test Tube >0.3. 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. All samples and reagents should be on ice to avoid denaturation and deactivation. Don't recommend to test too many samples in one time, because enzyme activity is calculated by the variation of the absorbance value per unit time. Recommended to calculate the enzyme activity by protein concentration. If you need to calculate by the sample weight, the total enzyme activity is equal to the enzyme activity of the supernatant and pellet which is cytoplasmic extraction. Please to extract alpha-KGDH from fresh samples in order to ensure the enzyme activity. Please reduce the tissues weight if the OD values is too high. Or reduce the volume of Extraction Buffer if the OD values is too low.
Preparation and Storage	The kit is valid for 6 months. 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 alpha-KGDH assay kit	Principle of the Assay: alpha-Ketoglutarate Dehydrogenase (alpha-KGDH) is widely present in the mitochondria of animals, plants, microorganisms and in-vitro cultured cells. It is one of the key regulation enzymes of Kreb's Cycle, catalyzing the oxidation and decarboxylation of alpha-Ketoglutarate to produce succinyl coenzyme A. CheKine™ Micro alpha-Ketoglutarate Dehydrogenase (alpha-KGDH) Assay Kit provides a simple, sensitive and rapid alpha-KGDH activity detection method, which is compatible to various biological samples, especially animals or plant tissues, cells. The detection principle is based on that alpha-KGDH can catalyze alpha-Ketoglutarate, NAD⁺ and coenzyme A to produce succinyl-coenzyme A, carbon dioxide and NADH. NADH has a characteristic absorption peak at 340 nm. alpha-KGDH activity can be calculated according to the generation rate of NADH.
Product Categories/Family for alpha-KGDH 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.