

Pyruvate Dehydrogenase (PDH) Activity Assay Kit | PDH assay kit

Pyruvate Dehydrogenase (PDH) Activity Assay Kit (Colorimetric)

CATALOG #
AAA332513

PRODUCT SYNONYMS

Pyruvate Dehydrogenase (PDH) Activity; Pyruvate Dehydrogenase (PDH) Activity Assay Kit (Colorimetric); PDH assay kit

PRODUCT SPECIFICATIONS

Samples	Animal and Plant Tissues, Cells and Bacteria
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 PDH from fresh samples in order to ensure the enzyme activity. Please take protective measures when operating, because Reagent II and Reagent IV has certain toxicity.
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 PDH assay kit	Principle of the Assay: Pyruvate dehydrogenase (PDH) exists widely in animals, plants, microorganisms and cultured cells. It is the rate-limiting enzyme of pyruvate dehydrogenase complex (PDHC) that catalyzes the decarboxylation of pyruvate to produce hydroxyethyl-TPP, and connects glycolysis with the tricarboxylic acid cycle. CheKine™ Micro Pyruvate Dehydrogenase (PDH) Activity Assay Kit provides a simple, convenient and rapid PDH activity detection method, which contains all necessary reagents and is suitable for testing animal, plant tissues, cell and bacteria samples. The detection principle is that PDH can catalyze pyruvate dehydrogenation, and reduce 2,6-Dichloroindophenol (2,6-DCPIP), the changes of 2,6-DCPIP could be detected by reading the absorption at 605 nm. The enzyme activity of PHD could be obtained by calculating the reduction rate of 2,6-DCPIP.
Product Categories/Family for PDH 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.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/pyruvate-dehydrogenase-pdh-activity/332513>