

Succinate Dehydrogenase (SDH) Activity Assay Kit | SDH assay kit

Succinate Dehydrogenase (SDH) Activity Assay Kit (Colorimetric)

CATALOG #
AAA332511

PRODUCT SYNONYMS

Succinate Dehydrogenase (SDH) Activity; Succinate Dehydrogenase (SDH) Activity Assay Kit (Colorimetric); SDH 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 SDH from fresh samples in order to ensure the enzyme activity. it is normal while there is fewer precipitates in Reagent III solution. Please filter if the precipitates interfere the result. 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 SDH assay kit	Principle of the Assay: Succinate Dehydrogenase (SDH) is widely present in animals, plants, microorganisms and cultured cells. SDH is a marker enzyme of mitochondria and a membrane-bound enzyme located on the inner membrane of mitochondria. Also, it is one of the hubs to connect respiratory electron transfer and oxidative phosphorylation. In addition, SDH can provide electrons for the respiratory chain of various prokaryotic cell capacity. CheKine™ Micro Succinate Dehydrogenase (SDH) Assay Kit provides a simple method for detecting SDH activity in animal and plant tissues, cells and bacteria. The detection principle is based on that SDH can catalyze succinate to dehydrogenate and produce fumaric acid. The hydrogen can be transmitted by Phenazine dimethyl ester sulphuric acid (PMS), thus reducing 2,6-Dichlorophenolindophenol (2,6-DCPIP) and 2,6-DCPIP has a special absorption peak at 605 nm. The reducing speed of 2,6-DCPIP can be determined by detecting the change of absorbance at 605 nm, then SDH activity in samples can be calculated.
Product Categories/Family for SDH 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/succinate-dehydrogenase-sdh-activity/332511>