

Succinate (Succinic Acid) Colorimetric Assay Kit

Cat. No. Kit-0807 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Succinate (Succinic Acid) Assay Kit (Colorimetric) is used for measuring succinate using colorimetric methods.
Description	Succinic acid (C ₄ H ₆ O ₄) is distributed in all plants and animal tissues and was first obtained from amber. Due to its low toxicity, it is widely used in agriculture, food and pharmaceutical industry. Succinate (C ₄ H ₄ O ₄) is the salt or ester of succinic acid. It is one of the most active components of cellular respiratory and intracellular energy generation. Measurement of succinate or succinic acid level is a key to analysis of the citric acid cycle. Succinate (Succinic Acid) Assay Kit (Colorimetric) is a sensitive, fast and easy-to-use kit. In this assay, Succinate is utilized by Succinyl-CoA Synthetase to form an intermediate, which undergoes a series of reactions & reduces a colorless probe to a colored product with strong absorbance at 450 nm. This assay kit can detect less than 40 μM of succinate or succinic acid in a variety of sample types.
Applications	Measurement of succinate or succinic acid in various samples Analysis of citric acid cycle in various tissues/cells
Usage	For research use only (RUO)
Storage	Store kit at –20°C, protect from light. Warm Assay Buffer to room temperature before use. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the experiment.
Kit Components	Succinate Assay Buffer 25 mL Succinate Converter (Lyophilized) 1 vial Succinate

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Enzyme Mix (Lyophilized) 1 vial Succinate Substrate Mix (Lyophilized) 1 vial Succinate
Developer (Lyophilized) 1 vial Succinate Standard (Lyophilized) 1 vial

Detection method Colorimetric

**Compatible Sample
Types** Cell culture, Tissue samples

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