

FAD Colorimetric/Fluorometric Assay Kit

Cat. No. Kit-1040 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description Flavin Adenine Dinucleotide (FAD) is a redox cofactor which plays an important role in metabolism. FAD exists in different redox states and cycles between FAD, FADH and FADH₂. The primary sources of reduced FAD in eukaryotic metabolism are the citric acid cycle and the beta oxidation reaction pathways. In FAD Assay Kit, FAD functions as the cofactor of an oxidase which catalyze the formation of a product that reacts with OxiRed probe generating color and fluorescence. FAD can be detected by either colorimetric ($\lambda=570$ nm) or fluorometric (Ex/Em=535/587 nm) methods. The kit provides a rapid, simple, ultra-sensitive, and reliable test suitable for high throughput assay of FAD. The lower limit of detection is less than 1 nM FAD.

Applications Applications- FAD functions as the cofactor of an oxidase which catalyze the formation of a product that reacts with OxiRed probe generating color and fluorescence. The lower limit of detection is less than 1 nM FAD.

Storage -20°C

Shipping Gel Pack

Size 100 assays

Kit Components FAD Assay Buffer; OxiRed Probe; Dimethylsulfoxide (DMSO; Dried); FAD Enzyme Mix (lyophilized); FAD Standard (1 nmol); Stop Solution

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Target Species	Mammalian
Detection method	Absorbance (570 nm) or Fluorescence (Ex/Em535/587 nm)
Features & Benefits	Simple procedure; Fast and convenient; The assay is sensitive, stable and high-throughput adaptable.

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