



Xanthine Oxidase Assay Kit

Product Information

Cat

Kit-2454

Cat.No.

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Product Overview

Xanthine Oxidase catalyzes the oxidation of xanthine to uric acid. In addition, xanthine oxidase can catalyze the oxidation of hypoxanthine to xanthine, act on certain purines and aldehydes, and in certain cases produce the superoxide ion. Clinically, xanthine oxidase activity in blood can act as a marker for influenza, liver damage, and possibly cardiovascular health. Simple, direct and high-throughput assays for measuring xanthine oxidase activity find wide applications in research and drug discovery. xanthine oxidase assay kit uses a single Working Reagent that combines the xanthine oxidase reaction and color reaction in one step. The change in color intensity of the reaction product at 570 nm or fluorescence intensity at $\lambda_{ex}/em = 530/585$ nm is directly proportional to xanthine oxidase activity in the sample.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method OD570nm, FL530/585nm

Compatible Sample Types

Cell lysate, serum, and other biological samples.

Features & Benefits



Xanthine Oxidase Assay Kit

Sensitive and accurate. Use as little as 10 μ L samples. Linear detection range in 96-well plate for 20 minute incubation: 0.03 to 25 U/L xanthine oxidase for colorimetric assays and 0.01 to 2.5 U/L for fluorimetric assays.

Simple and high-throughput. The procedure involves addition of a single working reagent and incubation for 20 min at room temperature.

Assay time

20 min

Sensitivity

FL 0.01 U/L; OD 0.03 U/L
