

Xanthine Oxidase Assay Kit

Cat. No. Kit-2454 **Lot. No.** (See product label)

SPECIFICATION

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	Sensitive and accurate. Use as little as 10 μ 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.

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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

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