

Xanthine Oxidase Activity Colorimetric/Fluorometric Assay Kit

Cat. No. Kit-0845 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Simple procedure; takes ~ less than 40 minutes Fast and convenient Sensitive assays for measuring Xanthine Oxidase activity in various biological samples
Description	Xanthine oxidase (XO, EC 1.17.3.2) is present in appreciable amounts in the liver and jejunum in healthy individuals. However, in various liver disorders, XO is released into circulation. Therefore, determination of serum XO level serves as a sensitive indicator of acute liver damage such as jaundice. We have developed an easy and sensitive assay to determine XO in variety of samples. In the assay, XO oxidizes xanthine to hydrogen peroxide (H₂O₂) which reacts stoichiometrically with OxiRed Probe to generate color (at λ = 570 nm) and fluorescence (at Ex/Em = 535/587 nm). Since the color or fluorescence intensity is proportional to XO content, the XO activity can be accurately measured. The kit detects 1-100 mU xanthine oxidase in 100 μ reaction volume.
Applications	The kit detects 1-100 mU xanthine oxidase in 100 μ reaction volume.
Usage	For Research Use Only! Not For Use in Humans
Storage	-20°C
Size	100 assays
Kit Components	• XO Assay Buffer

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- OxiRed Probe (in DMSO)
- XO Enzyme Mix
- XO Substrate Mix
- XO Positive Control
- H₂O₂ Standard (0.88 M)

Target Species Mammalian

Detection method Absorbance (570 nm) or Fluorescence (Ex/Em 535/587 nm)

Compatible Sample Types Cell and Tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, food etc.

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