

Oxalate Colorimetric Assay Kit

Cat. No. Kit-0640 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Oxalate Assay Kit (Colorimetric) is used to measure Oxalate levels.
Description	Oxalate ($C_2O_4^{2-}$), in the form of Oxalic acid is present in many foods and beverages (e.g. spinach, tea etc.). It accumulates in many plant tissues and play role in regulating pH, osmosis and calcium storage. In animals, oxalate is either absorbed from dietary intake or produced from glycolate metabolism in liver. Under normal conditions, the daily oxalate load can be excreted by kidney. However, hereditary defects can cause an increased level of oxalate, which leads to hyperoxaluria, and results in the formation of kidney stones. Therefore, measurement of oxalate level is useful for the prevention, diagnosis and monitoring of kidney stones. The Oxalate Assay Kit (Colorimetric) is an easy-to-use, sensitive and high throughput adaptable kit. In this assay, Oxalate reacts with Oxalate Converter and Oxalate Enzyme Mix to form an intermediate, which in turn reacts with a highly specific probe to generate color at 450 nm. The assay kit can detect Oxalate levels lower than 20 μM.
Applications	Measurement of Oxalate level in various samples. Analysis of kidney and liver functions.
Target Species	Mammals, Plants
Usage	For research use only (RUO)
Storage	Store kit at $-20^{\circ}C$, protected from light. Read the entire protocol before performing the assay.

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Kit Components	Oxalate Assay Buffer 25 mL Oxalate Development Buffer 15 mL Oxalate Converter 0.2 mL Oxalate Enzyme Mix (lyophilized) 1 vial Oxalate Probe (lyophilized) 1 vial Oxalate Standard (lyophilized) 1 vial
Detection method	Colorimetric
Compatible Sample Types	Animal samples: Kidney, Liver, Plasma, Serum, Urine Plant samples: Fruits, Vegetable leafs

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