D-Lactate Fluorometric Assay Kit

Cat. No. Kit-2205 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	D-Lactate is the result of anaerobic glycolysis by microorganisms in the gastrointestinal system, and the product of detoxification of methylglyoxal by the glyoxalase system. The presence of abnormal levels of D-Lactate has been linked to a series of pathological conditions, such as diabetes, and appendicitis. D-Lactate Assay kit offers simplicity, sensitivity, and can be adapted to high-throughput research. The assay enzymatically oxidizes D-Lactate generating a fluorescent signal (Ex/Em = 535/587 nm). The signal is directly proportional to the amount of D-Lactate. The assay kit can detect samples containing as low as 0.1 µM D-Lactate.
Applications	Measurement of D-Lactate in various tissues/cells/biological fluids. Analysis of D-Lactate in pathological conditions. Mechanistic study of the glyoxalase system.
Storage	-20°C
Shipping	Gel Pack
Size	100 assays
Kit Components	D-Lactate Assy Buffer; (in DMSO); D-Lactate Enzyme Mix (Lyophilized); D-Lactate Substrate Mix (Lyophilized); D-Lactate Standard (100 mM)
Detection method	Fluorescence (Ex/Em= 535/587 nm)
Features & Benefits	Simple, highly sensitive, and high-throughput adaptable. The assay kit can detect samples containing as low as 0.1 µM D-Lactate.

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