



## D-Lactate Fluorometric Assay Kit

### Product Information

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**Cat**

Kit-2205

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Kit-2205

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**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  $\mu$ M D-Lactate.

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**Applications**

Measurement of D-Lactate in various tissues/cells/biological fluids. Analysis of D-Lactate in pathological conditions. Mechanistic study of the glyoxalase system.

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**Storage**

-20°C

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**Shipping**

Gel Pack

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**Size**

100 assays

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**Kit Components**

D-Lactate Assay Buffer; (in DMSO); D-Lactate Enzyme Mix (Lyophilized); D-Lactate Substrate Mix (Lyophilized); D-Lactate Standard (100 mM)



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## D-Lactate Fluorometric Assay Kit

**Detection method** Fluorescence (Ex/Em= 535/587 nm)

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### Features & Benefits

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Simple, highly sensitive, and high-throughput adaptable.

The assay kit can detect samples containing as low as 0.1  $\mu$ M D-Lactate.

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