

# Lactate Dehydrogenase Activity Assay Kit

**Cat. No.** Kit-2257    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Lactate Dehydrogenase (LDH: EC 1.1.1.27) is a common enzyme found in wide range of organisms. It catalyzes the interconversion of pyruvate and lactate, with concomitant interconversion of NADH and NAD <sup>+</sup> . During tissue damage, LDH is released into the bloodstream; therefore it serves as a marker for various diseases and common injuries. Lactate Dehydrogenase Activity Assay kit provides a quick and easy method for monitoring Lactate Dehydrogenase activity in a wide variety of samples. In this assay, Lactate Dehydrogenase converts lactate into pyruvate and NADH, which reacts with to generate an intense fluorescent product (Ex/Em = 535/587 nm). This kit is simple, highly sensitive and high-throughput adaptable, and can detect Lactate Dehydrogenase activity as low as 1 µU/ml. |
| <b>Applications</b>     | Measurement of LDH activity in various tissues and cells<br>Evaluation of tissue damages or cell cytotoxicity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | -20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Shipping</b>         | Gel Pack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Size</b>             | 500 assays                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Kit Components</b>   | LDH Assay Buffer; LDH Substrate Mix (Lyophilized); PicoProbe (in DMSO); NADH Standard (Lyophilized); LDH Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Detection method</b> | Fluorescence (Ex/Em = 535/587 nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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**Features & Benefits**

Simple & highly sensitive;  
High-throughput adaptable;  
Detection Limit: 1  $\mu$ U/ml

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