CREATIVE BIOMART®
Assay Kit

# Lactate Dehydrogenase Activity Colorimetric Assay Kit (384-well)

## Product Information

**Cat**

Kit-2203

**Cat.No.** Kit-2203

**Product Overview**

Lactate dehydrogenase (LDH) is an oxidoreductase (EC 1.1.1.27) present in a wide variety of organisms. LDH catalyzes the interchange of lactate to pyruvate, with the concomitant interconversion of NAD+ to NADH. LDH is present in many organs and tissues including liver, heart, pancreas, kidneys, skeletal muscles, brain, and blood cells. When illness or injury damages cells, LDH may be released into the bloodstream, causing a rise of LDH level in blood. Elevated LDH in serum can indicate a number of unfavorable medical conditions like cerebral attack, heart attack, hepatitis, muscular dystrophy, hemolytic anemia and even certain cancers. Therefore, quantitation of LDH activity has significant clinical importance. Lactate Dehydrogenase Colorimetric Assay kit, offers a simple and sensitive assay that can detect and quantify the enzymatic activity of LDH. In this assay, LDH oxidizes a substrate utilizing NAD as cofactor. The reduced cofactor (NADH) reacts with a chromophore producing a stable color (OD: 500 nm) that is directly proportional to LDH activity. The assay is suitable to detect the enzymatic activity as low as 0.08 mU in various biological samples.

**Applications**

Measure triglycerides in biological samples;
Screen and characterize compounds that influence triglyceride metabolism.

**Storage**

-20°C

**Shipping**

Gel Pack

**Size**

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500 assays

**Kit Components**

LDH Assay Buffer; LDH Substrate Mix (lyophilized); NADH Standard (lyophilized); LDH Positive Control (lyophilized)

**Target Species**

Mammalians

**Detection method** Absorbance (500 nm)

**Features & Benefits**

Sensitive assays for measuring LDH activity in various biological samples. The kit has been optimized for high throughput analyses

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