

# Lactate Dehydrogenase Assay Kit

**Cat. No.** Kit-0509    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Detection and Quantification of Lactate Dehydrogenase Activity.
<b>Description</b>	Lactate dehydrogenase (LDH) is an oxidoreductase present in a wide variety of organisms. It catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD. When disease or injury or toxic material damages tissues, cells release LDH into the bloodstream. Since LDH is a fairly stable enzyme, LDH has been widely used to evaluate the presence of damage and toxicity of tissue and cells. Quantification of LDH has broad range of applications. In this colorimetric LDH quantification assay, LDH reduces NAD to NADH, which then interacts with a specific probe to produce a color (Lambda max = 450 nm). The kit quantifies LDH activity in variety of biological samples such as in serum or plasma, cells, culture medium and fermentation, etc. The assay is quick, convenient, and sensitive.
<b>Applications</b>	Functional Assay
<b>Storage</b>	Shipped and store at 4°C for 6 months.
<b>Kit Components</b>	Component-Volume-Storage 1. 96-Well Microplate; 2. Extract: 30 ml x 1, 4°C; 3. Reagent I: 5 ml x 1, 4°C; 4. Reagent II: Powder x 1, -20°C; 5. Reagent III: 5 ml x 1, 4°C; 6. Reagent IV: 20 ml x 1, 4°C; 7. Technical Manual: 1 Manual Note: Reagent II: add 1.3 ml distilled water to dissolve before use, stored at -20°C.
<b>Detection method</b>	Colorimetric
<b>Compatible Sample</b>	Biological Fluid; Cell Culture Supernatant; Plasma; Serum; Tissue Culture

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Types**

Supernatant; Urine

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