

D-lactate Dehydrogenase Activity Assay kit

Lactate dehydrogenase (LDH) is the terminal enzyme of the glycolysis pathway which is widely found in animals, plants, microorganisms and cultured cells. LDH catalyzes the reversible conversion of lactate to pyruvic acid with the reduction of NAD^+ to NADH and vice versa. According to the different configuration of catalytic substrate, it could be divided into D-lactate dehydrogenase (D-LDH, EC1.1.1.28) and L-lactate dehydrogenase (L-LDH, EC1.1.1.27). NAD^+ and lactic acid are oxidized to pyruvic acid by the catalysis of D-LDH. Pyruvate further reacted with 2,4-dinitrophenylhydrazide to form pyruvate dinitrobenzone, which shows brown red color in alkaline solution and the color depth is proportional to the concentration of pyruvate.

Catalog No.	250528
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Detection Method	Spectrophotometry / Micro-Plate Reader
Storage/Stability	-20°C/6 months
Shipping	Gel Packs