

Native Rabbit Pyruvate Kinase/Lactic Dehydrogenase enzymes

Cat. No. NATE-0568

Lot. No. (See product label)

Introduction

Description

Lactate dehydrogenase from rabbit muscle can be inhibited by ascorbate. Aldolase and actin were shown to block this inhibitory effect. Pyruvate kinase requires bivalent and monovalent cations such as Mg^{2+} and K^{+} respectively for activation to occur.

Applications

Pyruvate kinase from rabbit muscle has been used in a study to assess nuclear magnetic relaxation studies of the conformation of adenosine 5'-triphosphate. It has also been used in a study to investigate heterogeneity of presumably homogeneous protein preparations.

Synonyms

Pyruvate Kinase/Lactic Dehydrogenase enzymes; PK/LDH enzymes

Product Information

Species

Rabbit

Source

rabbit muscle

Form

buffered aqueous glycerol solution

Activity

900-1400 units/mL lactic dehydrogenase; 600-1,000 units/mL pyruvate kinase

Buffer

Solution in 50% glycerol containing 10 mM HEPES, pH 7.0, 100 mM KCl and 0.1 mM EDTA

Unit Definition

Pyruvate kinase activity: One unit will convert 1.0 μ mole of phospho (enol)pyruvate to pyruvate per min at pH 7.6 at 37°C. Lactic dehydrogenase activity: One unit will reduce 1.0 μ mole of pyruvate to L-lactate per min at pH 7.5 at 37°C.

Storage and Shipping Information

Stability

-20°C