Creative Enzymes®

Native E.coli Galactose 1-Dehydrogenase

Cat. No. NATE-0979

Lot. No. (See product label)

Introduction

Description	In enzymology, a galactose 1-dehydrogenase (EC 1.1.1.48) is an enzyme that catalyzes the chemical reaction: D-galactose + NAD+ rightleftharpoons D-galactono-1,4-lactone + NADH + H+. Thus, the two substrates of this enzyme are D-galactose and NAD+, whereas its 3 products are D-galactono-1,4-lactone, NADH, and H+. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD+ or NADP+ as acceptor. This enzyme participates in galactose metabolism.
Applications	Use Galactose 1-Dehydrogenase in diagnostic tests for the determination of total galactose.
Synonyms	D-galactose:NAD+ 1-oxidoreductase; D-galactose dehydrogenase; beta-galactose dehydrogenase; NAD+-dependent D-galactose dehydrogenase; galactose 1-dehydrogenase; Galactose dehydrogenase

Product Information

Source	E.coli
Appearance	White lyophilizate
CAS No.	9028-54-0
Activity	>50 U/mg
Contaminants	Alcohol dehydrogenase: <0.01 β-Galactosidase: <0.01 Glutamate dehydrogenase (standard): <0.5 Lactate dehydrogenase: <0.1 Malate dehydrogenase: <1.0 "NADH-oxidase": <0.05

Storage and Shipping Information

Stability	At +2 to +8°C within specification range for 12 months.