

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.

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