

## Prokaryotic Galactose dehydrogenase, Recombinant

Cat. No. NATE-0840

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.

**Synonyms** D-galactose:NAD+ 1-oxidoreductase; D-galactose dehydrogenase; beta-galactose dehydrogenase; NAD+-

dependent D-galactose dehydrogenase; galactose 1-dehydrogenase; EC 1.1.1.48; Galactose

dehydrogenase

## **Product Information**

**Source** Microorganism

**Form** Liquid

**EC Number** EC 1.1.1.48

*CAS No.* 9028-54-0

*Molecular* ∼ 36.6kD

70.0K

Weight

**Activity** ~ 275 U/mg protein

**Unit** One unit is defined as the amount of enzyme required to convert one μmole of D-galactose to D-

**Definition** galactanate per minute in the presence of NAD+ in Tris-HCl buffer at pH 8.6 and 25°C.

## Storage and Shipping Information

**Storage** 4°C

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