

## Native Pseudomonas fluorescens Galactose 1-Dehydrogenase

Cat. No. NATE-0980

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** Pseudomonas fluorescens

Appearance White suspension in ammonium sulfate solution, 3.2 mol/l; EDTA, 1 mmol/l; pH

approximately 6

**CAS No.** 9028-54-0

Activity >5 U/mg

**Contaminants** Alcohol dehydrogenase: <0.01 β-Galactosidase: <0.01 Lactate dehydrogenase:

<0.5 "NADH-oxidase": <0.1

## Storage and Shipping Information

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

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