

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.
- SynonymsD-galactose:NAD+ 1-oxidoreductase; D-galactose dehydrogenase; beta-galactose dehydrogenase;NAD+-dependent D-galactose dehydrogenase; galactose 1-dehydrogenase; Galactose dehydrogenase

Product Information

9	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.